

# Clinical Chemistry Methods Guide 2010

for Labquality Data Processing



# Clinical Chemistry Methods Guide

## 2010

for Labquality Data  
Processing

### EDITORS

Ulla-Riitta Nordberg  
Ulla Tiikkainen

### DESIGN BY

Minna Seppä  
Aino Siukola

### PUBLISHER

Labquality  
Ratamestarinkatu 11  
FIN-00520 HELSINKI

### PRINTED BY

University Press  
Helsinki

ISSN 1236-7788

## HOW TO USE THE METHODS GUIDE

**At the beginning of the Methods Guide there are brief instructions on how to use this booklet. Every user is advised to read that section carefully.**

The analytes are listed in alphabetical order according to their official long name.

Please note that the methods are identified by three codes: a three-digit code for the method group, a three-digit code for the ID number (e.g. reagent) and a three-digit code for the chemical principle.

The method groups are listed in alphabetical order for each analyte except enzymes. For enzymes, IFCC methods and comparable methods are listed first.

Methods in each method group are listed in alphabetical order. **Note that an individual manufacturer may offer several reagents with different chemical principles.** They can be found in either the same or a different method group. Please **also note that for enzyme measurements, the same reagent with the same chemical principle can be in more than one method group.** For this reason it is requested that **reference values** be quoted with the enzyme measurements.

Calibrators and instruments are listed in alphabetical order as well. Codes for manufacturers are the same for calibrators and for instruments.

If the method, chemical principle, manufacturer, calibrator or instrument that you use is not mentioned on the list, an accurate description is needed. In the case of a reagent or calibrator, please send us the kit insert.

### Why method data and method groups?

It is necessary to divide results into method groups so that each laboratory can compare its own performance and operation with others' using the same method through the external quality assessment. Each laboratory should compare its own results only with the mean value for its own method group when evaluating the performance data. As many conclusions are drawn from the EQA results, it is of the utmost importance that correct methods, calibrator and instrument data are notified to Labquality.

### Difference between QC sample and patient sample

Quality control material manufactured commercially may contain both human and animal-based sera, as well as other components. During the manufacturing processes the control material is manipulated in different ways, although a general attempt is made to keep the material as natural as possible. Handling is known to cause differences between methods. In ideal cases, QC and patient samples behave in the same way.

Helsinki, February 2010

Editorial staff

# CONTENTS

## ANALYTES

	No.	Page
Alanine aminotransferase.....	0020 ..ALT .....	4
Albumin.....	0008 ..Alb .....	6
Alkaline phosphatase .....	0017 ..ALP .....	8
Alpha-1-glycoprotein .....	0052 ..A1Glypr .....	11
Amylase.....	0018 ..Amyl .....	12
Amylase, pancreatic .....	0037 ..AmylP .....	15
Antitrypsin.....	0053 ..Antitry .....	16
Aspartate aminotransferase .....	0019 ..AST .....	17
Bilirubin.....	0016 ..Bil .....	19
Bilirubin, neonatal .....	0046 ..Bil neo .....	21
C-reactive protein .....	0048 ..CRP.....	23
Calcium.....	0010 ..Ca.....	25
Calcium, ionized .....	0049 ..Ca-Ion.....	27
Calcium, ionized, pH corrected.....	0054 ..Ca-Ion, pH 7.4 .....	28
Chloride .....	0003 ..Cl.....	29
Cholesterol .....	0014 ..Chol.....	30
Cholesterol, HDL .....	0047 ..Chol-HDL.....	32
Cholesterol, LDL.....	0056 ..Chol-LDL .....	35
Complement 3 .....	0061 ..C3.....	37
Complement 4 .....	0062 ..C4.....	37
Copper.....	0038 ..Cu.....	38
Cortisol .....	0030 ..Cortisol .....	39
Creatine kinase.....	0021 ..CK .....	40
Creatinine .....	0005 ..Crea .....	42
Digitoxin.....	0051 ..Digit .....	44
Ferritin .....	0035 ..Ferritin .....	45
Glucose .....	0009 ..Glucose .....	47
Glutamyl transferase .....	0032 ..GT .....	49
Haemoglobin .....	0031 ..Hb.....	51
Haptoglobin .....	0029 ..Haptog.....	52
Immunoglobulin A .....	0042 ..IgA.....	53
Immunoglobulin E.....	0043 ..IgE.....	54
Immunoglobulin G.....	0044 ..IgG .....	55
Immunoglobulin M .....	0045 ..IgM .....	56
Iron .....	0023 ..Fe .....	57
Lactate dehydrogenase .....	0022 ..LD.....	59
Lactic acid.....	0004 ..Lactate .....	61
Lithium .....	0040 ..Li .....	62
Magnesium .....	0011 ..Mg .....	63
Osmolality.....	0050 ..Osmol.....	65
Phosphorus .....	0012 ..Pi .....	66
Potassium.....	0002 ..K.....	68
Protein .....	0007 ..Prot.....	70
Selenium.....	0039 ..Se.....	72
Sodium .....	0001 ..Na.....	73
Thyrotropine .....	0033 ..TSH .....	75
Thyroxine.....	0028 ..T4 .....	77
Thyroxine, free.....	0034 ..FT4 .....	78
Total iron binding capacity .....	0024 ..TIBC, UIBC .....	79
Transferrin .....	0025 ..Transf .....	80
Transferrin receptor, soluble.....	0060 ..TfR .....	81
Triglycerides .....	0015 ..Trigly.....	82
Triiodothyronine.....	0026 ..T3 .....	84
Urea.....	0006 ..Urea .....	85
Uric acid.....	0013 ..Uric acid .....	87
Zinc.....	0041 ..Zn .....	89

**MANUFACTURERS** ..... 90

**INSTRUMENTS** ..... 91

**CALIBRATORS** ..... 96

## INQUIRIES

Ulla-Riitta Nordberg tel. +358 9 8566 8236  
Ulla Tiikkainen tel. +358 9 8566 8238

# Directions for use

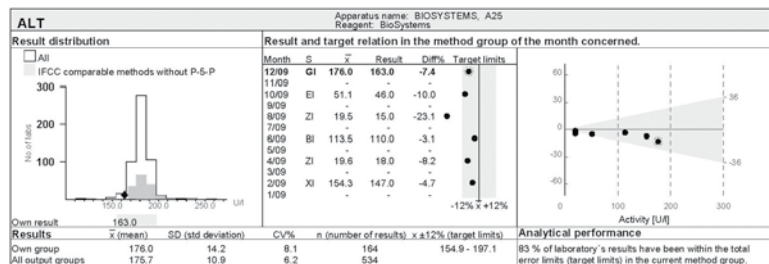
The methods data for the Long-term, Short-term, Haemoglobin, Neonatal bilirubin and Short-term CRP surveys remain constant from survey to survey. All results obtained from these surveys are processed using previously notified methods data (e.g. method groups).

summaries, and it will be more difficult to interpret the laboratory's own results if the results are compared with the wrong group. When evaluating your results, first check the accuracy of your methods data record. If it is inaccurate, please inform Labquality what change is required.

Laboratory is responsible for notifying its methods data. If you do not notify your methods data, your results will be found in the method group "No method information". The variation is usually higher in the "No method information" method group than others because of its inhomogeneous nature.

Incorrect or out-of-date methods data may cause errors in statistical

↓ The method data registered for your laboratory can be seen in the report.



Please send the methods data

A) via the Internet or B) fill in the methods data sheet

## A) Sending methods data via Internet

www.labquality.fi → Participant services → Log in: enter your Client code and Password → Choose "Methods data" → Choose the analyte

### How to add and change your methods

**1**  
For new data, press "New"

**2**  
To change your data, press "EDIT"

**0020 Alanine aminotransferase**

Reagent  ...

Method group

Chemical principle

Calibrator  ...

Instrument  ...

Unit in use  ▼

Reference values (male, 40 years)  -

Starting from     
(dd.mm.yyyy)

Additional information

Last update

The grey buttons will appear

**3**  
Press the grey button and choose the reagent. Method group and chemical principle will be updated automatically. If you cannot find your reagent on the drop-down menu, please write the detailed information of your method in the box for "Additional information".

**4**  
Choose the calibrator and instrument and enter other information required.

**5**  
Choose the right unit.

**6**  
SAVE

## B) Filling in the methods data sheet and sending it to Labquality by fax or by post

You can use methods data sheet instead of Internet.

- ❶ For **new methods data**, please always fill in the whole row for each analyte. For **changes**, please only fill the data that has changed.
- ❷ First look for your method group on the list. The methods below each method group are listed in alphabetical order for each analyte. The method consists of method group, ID number (e.g. reagent etc.) and chemical principle. Transfer all three codes onto the methods data sheet. If your method is not on the list, please enclose for example the reagent kit insert with the methods data sheet.
- ❸ The calibration code consists of a three-digit code for the manufacturer and a two-digit code for the calibration reagent itself.
- ❹ You will find the instrument data on the instrument list. It comprises two serial numbers, for manufacturer and for instrument.
- ❺ Please record the morning fast values of a 40-year-old male (on average medication) as reference values. Reference values are essential for all enzyme measurements.

### Example of how to fill in the methods data sheet

ALT: The laboratory uses BioSystems reagent and BioSystems Calibrator serum. The instrument is a BioSystems A25 and the reference value is <40 U/L .

Analyte	Analyte no.	Method group	ID no.	Chem. principle	Calibrator Manufacturer ID	Instrument Manufacturer ID	Reference values
❶ S-ALT	0020	009	065	009	188 02	188 05	0—40 U/L

**0020 Alanine aminotransferase U/L**  
ALT

**METHODS BY METHOD GROUP**

**IFCC comparable methods without P-5-P**

	Method group	ID no.	Chemical principle
Abbott Aeroset, Architect .....	009	541	009
ABX Diagnostics .....	009	238	009
:			
Beckman Coulter.....	009	030	009
Biocon Biozyme .....	009	533	009
Biocon Fluitest.....	009	046	009
Biolabo .....	009	258	009
BioMaxima .....	009	625	009
BioMérieux .....	009	047	009
BioSystems .....	009	065	009
BPC BioSED srl .....	009	312	009
:			

**188 BIOSYSTEMS**

02 Calibrator serum

03 Human calibrator

99 Other, please specify

**188 BIOSYSTEMS**

06 A15

05 A25

04 BTS 302

03 BTS 310

02 BTS 330

01 BTS 370

99 Other, specify

Note! If you do not find the correct codes for your method, please send us the reagent kit insert with the methods data sheet.

# 0020 Alanine aminotransferase U/L

ALT

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>IFCC comparable methods</b>			
Abbott Aeroset, Architect .....	006	541	003
ABX Diagnostics .....	006	238	003
ABX Pentra .....	006	617	003
AU instruments .....	006	036	003
Beckman Coulter .....	006	030	003
Biolabo .....	006	258	003
bioMerieux .....	006	047	003
BioSystems .....	006	065	003
Cormay .....	006	071	003
Diagnosticum .....	006	083	003
Diagon .....	006	615	009
Dialab .....	006	085	003
Diasys .....	006	335	003
IL Test .....	006	302	003
Invicon .....	006	737	003
Medix Biochemica .....	006	146	003
Merck .....	006	128	003
Randox .....	006	092	003
Roche .....	006	097	003
Roche cobas .....	006	704	003
Roche Cobas Integra .....	006	144	003
Siemens Advia .....	006	553	003
Siemens Dimension .....	006	180	003
Thermo Fisher Scientific Konelab .....	006	109	003
<b>IFCC comparable methods without P-5-P</b>			
Abbott Aeroset, Architect .....	009	541	009
ABX Diagnostics .....	009	238	009
ABX Pentra .....	009	617	009
Alfa Wasserman .....	009	710	009
Alpha Diagnostics .....	009	020	009
AMP Diagnostics .....	009	557	009
Analco .....	009	025	009
AU instruments .....	009	036	009
Audit Diagnostics .....	009	616	009
Beckman Coulter .....	009	030	009
Biocon Biozyme .....	009	533	009
Biocon Fluitest .....	009	046	009
Biolabo .....	009	258	009
BioMaxima .....	009	625	009
bioMerieux .....	009	047	009
BioSystems .....	009	065	009
BPC BioSED srl .....	009	312	009
BT Products .....	009	760	009
Centronic .....	009	063	009
Chema Diagnostica .....	009	643	009
Cormay .....	009	071	009
Diagnosticum .....	009	083	009
Diagon .....	009	615	009
Dialab .....	009	085	009
Diasys .....	009	335	009
Elitech .....	009	645	009
Futura Systems .....	009	723	009

	Method group	I D no.	Chemical principle
Gesan .....	009	732	009
Greiner Diagnostic .....	009	219	009
Hemolab .....	009	757	009
Hospitex .....	009	221	009
Human .....	009	112	009
IL Test .....	009	302	009
Invicon .....	009	737	009
Lachema .....	009	141	009
Linear Chemicals .....	009	640	009
Media .....	009	679	009
MG Diagnostic .....	009	783	009
Pars Azmon .....	009	671	009
Pointe Scientific .....	009	033	009
Quimica Clinica Aplicada .....	009	618	009
Randox .....	009	092	009
Randox RX Daytona .....	009	629	009
Roche .....	009	097	009
Roche cobas .....	009	704	009
Roche Cobas Integra .....	009	144	009
Roche DGKC .....	009	309	009
SGM .....	009	632	009
Siemens Advia .....	009	553	009
Siemens Express .....	009	080	009
Spinreact .....	009	204	009
Thermo Fisher Scientific Konelab .....	009	109	009
Thermo Trace .....	009	648	009
<b>Reflotron</b>			
Reflotron .....	011	056	093
<b>Spotchem</b>			
Spotchem .....	019	002	093
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	054
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	054

#### CHEMICAL PRINCIPLES

- 093 Alpha-ketoglutarate, Ala / H<sub>2</sub>O<sub>2</sub> / peroxidase / chromogen; reflectance
- 009 Alpha-ketoglutarate, Ala / NADH consumption; photometry
- 003 Alpha-ketoglutarate, Ala, P-5-P / NADH consumption; photometry
- 054 Alpha-ketoglutarate, Ala, P-5-P / NADH; reflectance

#### METHOD GROUPS

- 006 IFCC comparable methods
- 009 IFCC comparable methods without P-5-P
- 011 Reflotron
- 019 Spotchem
- 003 Vitros 250-950 and 5,1
- 015 Vitros DT60

# 0008 Albumin g/L

Alb

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Bromcresol green</b>			
Abbott Aeroset, Architect .....	018	541	024
ABX Pentra .....	018	617	024
Alpha Diagnostics .....	018	020	024
AMP Diagnostics .....	018	557	024
AU instruments .....	018	036	024
Audit Diagnostics .....	018	616	024
Biocon Fluitest .....	018	046	024
bioMerieux .....	018	047	024
BioSystems .....	018	065	024
BT Products .....	018	760	024
Chema Diagnostica .....	018	643	024
Cormay .....	018	071	024
Diagnosticum .....	018	083	024
Dialab .....	018	085	024
Diasys .....	018	335	024
Gesan .....	018	732	024
Human .....	018	112	024
I.S.E. SRL .....	018	741	024
IL Test .....	018	302	024
Linear Chemicals .....	018	640	024
Pars Azmon .....	018	671	024
Pointe Scientific .....	018	033	024
Randox .....	018	092	024
Randox RX Daytona .....	018	629	024
Roche .....	018	097	024
Roche cobas .....	018	704	024
Roche Cobas Integra .....	018	144	024
Siemens Advia .....	018	553	024
Siemens Express .....	018	080	024
Spinreact .....	018	204	024
Thermo Fisher Scientific Konelab .....	018	109	024
Thermo Trace .....	018	648	024
<b>Bromcresol purple</b>			
Abbott Aeroset, Architect .....	037	541	059
Audit Diagnostics .....	037	616	059
Beckman Coulter .....	037	030	059
Randox .....	037	092	059
Roche .....	037	097	059
Siemens Dimension .....	037	180	059
Thermo Fisher Scientific Konelab .....	037	109	059
<b>Immunochemical methods</b>			
Dako, (nephelometry) .....	059	131	192
Dako, (turbidimetry) .....	059	131	193
Roche Cobas Integra .....	059	144	193
Roche cobas Tina-quant .....	059	744	193
Roche Tina-quant .....	059	058	193
<b>Spotchem</b>			
Spotchem .....	019	002	068



	Method group	I D no.	Chemical principle
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	068
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	068

#### CHEMICAL PRINCIPLES

- 024 Bromcresol green (BCG); photometry
- 068 Bromcresol green (BCG); reflectance
- 059 Bromcresol purple (BCP); photometry
- 192 Immunochemical methods; nephelometry
- 193 Immunochemical methods; turbidimetry

#### METHOD GROUPS

- 018 Bromcresol green
- 037 Bromcresol purple
- 059 Immunochemical methods
- 019 Spotchem
- 003 Vitros 250-950 and 5,1
- 015 Vitros DT60

# 0017 Alkaline phosphatase U/L

ALP

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>IFCC comparable methods (AMP)</b>			
Abbott Aeroset, Architect .....	023	541	025
ABX Pentra .....	023	617	025
Alpha Diagnostics .....	023	020	025
AU instruments .....	023	036	025
Beckman Coulter .....	023	030	025
Biolabo .....	023	258	025
BioMaxima .....	023	625	025
Biomed .....	023	552	025
bioMerieux SFBC .....	023	190	025
BioSystems .....	023	065	025
BT Products .....	023	760	025
Chemia Diagnostics .....	023	292	025
Chemitech .....	023	589	025
Cormay .....	023	071	025
Diagnosticum .....	023	083	025
Dialab .....	023	085	025
Diasys .....	023	335	025
Gesan .....	023	732	025
Greiner Diagnostic .....	023	219	025
Human .....	023	112	025
IL Test .....	023	302	025
Invicon .....	023	737	025
Pointe Scientific .....	023	033	025
Randox .....	023	092	025
Roche cobas .....	023	704	025
Roche Cobas Integra .....	023	144	025
Roche IFCC .....	023	545	025
Siemens Advia .....	023	553	025
Siemens Dimension .....	023	180	025
Siemens Express .....	023	080	025
Thermo Fisher Scientific Konelab .....	023	109	025
Thermo Fisher Scientific Konelab (IFCC) Plus .....	023	672	025
Thermo Trace .....	023	648	025
Vital Diagnostics .....	023	211	025
Vitalab .....	023	743	025
<b>SCE and DGKC comparable methods (DEA)</b>			
Alfa Wasserman .....	013	710	015
AMP Diagnostics .....	013	557	015
AU instruments .....	013	036	015
Audit Diagnostics .....	013	616	015
Biocon Fluitest .....	013	046	015
Biolabo .....	013	258	015
bioMerieux .....	013	047	015
BioSystems .....	013	065	015
Chema Diagnostica .....	013	643	015
Chemitech .....	013	589	015
Diagnosticum .....	013	083	015
Diagon .....	013	615	015
Dialab .....	013	085	015
Diasys .....	013	335	015
Elitech .....	013	645	015
Futura Systems .....	013	723	015

	Method group	I D no.	Chemical principle
Gesan .....	013	732	015
Globe Diagnostics .....	013	742	015
Greiner Diagnostic .....	013	219	015
Hospitex .....	013	221	015
Human .....	013	112	015
I.S.E. SRL .....	013	741	015
Linear Chemicals .....	013	640	015
Media .....	013	679	015
Medix Biochemica .....	013	146	015
Merck Ecoline .....	013	090	015
MG Diagnostic .....	013	783	015
Pars Azmon .....	013	671	015
Randox .....	013	092	015
Roche DEA .....	013	546	015
SGM .....	013	632	015
Spinreact .....	013	204	015
Thermo Fisher Scientific Konelab .....	013	109	015
<b>AMP methods, calculated to SCE</b>			
Abbott Aeroset, Architect .....	036	541	025
AU instruments .....	036	036	025
Beckman Coulter .....	036	030	025
BioSystems .....	036	065	025
Cormay .....	036	071	025
Diasys .....	036	335	025
Elitech .....	036	645	025
Greiner Diagnostic .....	036	219	025
Human .....	036	112	025
Pars Azmon .....	036	671	025
Roche Cobas Integra .....	036	144	025
Roche IFCC .....	036	545	025
Siemens Dimension .....	036	180	025
Thermo Fisher Scientific Konelab .....	036	109	025
<b>MEG modifications</b>			
Lachema .....	071	141	134
<b>Reflotron, IFCC-level</b>			
Reflotron .....	080	056	042
Reflotron .....	080	056	248
<b>Reflotron</b>			
Reflotron .....	011	056	042
<b>Spotchem, IFCC-level</b>			
Spotchem .....	179	002	042
<b>Vitros 250-950 and 5,1, calculated to IFCC</b>			
Vitros 250-950 and 5,1 .....	095	005	042
<b>Vitros 250-950 and 5,1, SCE level</b>			
Vitros 250-950 and 5,1 .....	044	005	042

	Method group	I D no.	Chemical principle
<b>Vitros DT60, calculated to IFCC</b>			
Vitros DT 60 .....	108	004	042
<b>Vitros DT60, calculated to SCE</b>			
Vitros DT 60	058	004	042

### CHEMICAL PRINCIPLES

- 248 o-Cresolphthalein phosphate / methylglucamine: reflectance photometry
- 025 pNPP, AMP buffer / pNP; photometry
- 042 pNPP, AMP buffer / pNP; reflectance
- 015 pNPP, DEA buffer / pNP; photometry
- 134 pNPP, MEG buffer / pNP; photometry

### METHOD GROUPS

- 023 IFCC comparable methods (AMP)
- 013 SCE and DGKC comparable methods (DEA)
- 036 AMP methods, calculated to SCE
- 071 MEG modifications
- 080 Reflotron, IFCC-level
- 011 Reflotron
- 179 Spotchem, IFCC-level
- 095 Vitros 250-950 and 5,1, calculated to IFCC
- 044 Vitros 250-950 and 5,1, SCE level
- 108 Vitros DT60, calculated to IFCC
- 058 Vitros DT60, calculated to SCE

# 0052 Alpha-1-glycoprotein g/L

A1Glypr

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Beckman Coulter nephelometry</b>			
Beckman Coulter .....	039	030	191
<b>Siemens nephelometry</b>			
BN instruments .....	022	038	191
<b>Turbidimetry</b>			
AU instruments .....	005	036	190
Dako .....	005	131	190
Roche cobas .....	005	704	190
Roche Cobas Integra .....	005	144	190
Roche Tina-quant .....	005	058	190
Thermo Fisher Scientific Konelab .....	005	109	190

## CHEMICAL PRINCIPLES

- 191 Antigen-antibody (Ag-Ab) complex; nephelometry
- 190 Antigen-antibody (Ag-Ab) complex; turbidimetry

## METHOD GROUPS

- 039 Beckman Coulter nephelometry
- 022 Siemens nephelometry
- 005 Turbidimetry

# 0018 Amylase U/L

Amyl

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>IFCC comparable methods</b>			
ABX Pentra .....	007	617	020
AU instruments .....	007	036	020
BioSystems .....	007	065	020
BT Products .....	007	760	020
Diagnosticum .....	007	083	020
Diasys .....	007	335	020
Greiner Diagnostic .....	007	219	020
Human .....	007	112	020
Invicon .....	007	737	020
Randox EPS .....	007	535	020
Roche cobas .....	007	704	020
Roche Cobas Integra .....	007	144	020
Roche EPS .....	007	074	020
Siemens Advia .....	007	553	020
Thermo Fisher Scientific Konelab .....	007	109	020
<b>Different methods, Scandinavian level</b>			
Abbott Aeroset, Architect .....	016	541	033
AU instruments .....	016	036	033
Randox .....	016	092	122
Roche Cobas Integra .....	016	144	020
Roche EPS .....	016	074	020
<b>Different methods, Roche level</b>			
Biocon Fluitest .....	032	046	033
Centronic .....	032	063	020
Cormay .....	032	071	033
Dialab .....	032	085	033
Diasys .....	032	335	020
Human .....	032	112	033
Lachema .....	032	141	020
Linear Chemicals .....	032	640	135
Siemens Advia .....	032	553	020
<b>Different methods, original level</b>			
ACE .....	024	747	033
Alfa Wasserman .....	024	710	122
Alpha Diagnostics .....	024	020	131
AMP Diagnostics .....	024	557	033
Analco .....	024	025	033
AU instruments .....	024	036	033
Audit Diagnostics .....	024	616	033
Biocon Fluitest .....	024	046	033
Biolabo .....	024	258	033
BioMaxima .....	024	625	033
bioMerieux .....	024	047	033
BioSystems .....	024	065	033
BioSystems .....	024	065	131
Chemitech .....	024	589	033
Cormay .....	024	071	033
Diagnosticum .....	024	083	240
Diagnosticum .....	024	083	122
Diagon .....	024	615	033

	Method group	I D no.	Chemical principle
Diagon .....	024	615	240
Elitech .....	024	645	033
Futura Systems .....	024	723	033
Gesan .....	024	732	033
Hospitex .....	024	221	174
Human .....	024	112	033
I.S.E. SRL .....	024	741	033
IL Test .....	024	302	033
Lachema .....	024	141	020
Media .....	024	679	033
Pars Azmon .....	024	671	033
Pointe Scientific .....	024	033	033
Randox .....	024	092	122
SGM .....	024	632	122
Siemens Dimension .....	024	180	115
Siemens Express .....	024	080	131
Spinreact .....	024	204	033
Spinreact .....	024	204	122
Zeist Chemi .....	024	688	999
<b>Reflotron, IFCC-level</b>			
Reflotron .....	080	056	119
<b>Different methods calculated to IFCC</b>			
Abbott Aeroset, Architect .....	177	541	033
Agappe Diagnostics .....	177	734	033
Beckman Coulter .....	177	030	158
Biolabo .....	177	258	033
Cormay .....	177	071	033
Diamedix Diagnostica .....	177	641	033
Hospitex .....	177	221	033
Siemens Dimension .....	177	180	033
<b>Spotchem, IFCC-level</b>			
Spotchem .....	179	002	146
<b>Vitros 250-950 and 5,1, calculated to IFCC</b>			
Vitros 250-950 and 5,1 .....	095	005	058
<b>Vitros 250-950 and 5,1, Scandinavian level</b>			
Vitros 250-950 and 5,1 .....	046	005	058
<b>Vitros DT60, calculated to IFCC</b>			
Vitros DT 60 .....	108	004	058
<b>Vitros DT60, Scandinavian level</b>			
Vitros DT 60 .....	065	004	058

## CHEMICAL PRINCIPLES

- 146 Bents.-G7-pNP / pNP; reflectance
- 174 Benz.-G7-pNP / pNP; photometry
- 122 Blocked-G7-pNP / pNP; photometry
- 033 Cl-G3-pNP / Cl-pNP; photometry
- 135 Cl-G7-pNP / Cl-pNP; photometry
- 240 Cl-Gal-G2-pNP / Cl-pNP; photometry
- 058 Dyed starch / dyed saccharides; reflectance
- 020 Etyl.-G7-pNP / pNP; photometry
- 158 G4 / NADH; photometry
- 115 G6-pNP / pNP; photometry
- 131 G7-pNP / pNP; photometry
- 119 Indolyl-G7 / dye; reflectance

#### **METHOD GROUPS**

- 007 IFCC comparable methods
- 016 Different methods, Scandinavian level
- 032 Different methods, Roche level
- 024 Different methods, original level
- 080 Reflotron, IFCC-level
- 177 Different methods calculated to IFCC
- 179 Spotchem, IFCC-level
- 095 Vitros 250-950 and 5,1, calculated to IFCC
- 046 Vitros 250-950 and 5,1, Scandinavian level
- 108 Vitros DT60, calculated to IFCC
- 065 Vitros DT60, Scandinavian level



# 0037 Amylase, pancreatic U/L

AmyIP

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>IFCC comparable methods</b>			
Abbott Aeroset, Architect .....	007	541	076
Beckman Coulter .....	007	030	076
Biomed .....	007	552	076
Diagnosticum .....	007	083	076
Diagon .....	007	615	076
Diasys .....	007	335	076
Lachema .....	007	141	076
Linear Chemicals .....	007	640	076
Randox EPS .....	007	535	076
Roche cobas .....	007	704	076
Roche Cobas Integra .....	007	144	076
Roche EPS .....	007	074	076
Siemens Advia .....	007	553	076
<b>Different methods, Scandinavian level</b>			
Roche Cobas Integra .....	016	144	076
<b>Different methods, Roche level</b>			
Diasys .....	032	335	076
Roche EPS .....	032	074	076
<b>Reflotron, IFCC-level</b>			
Reflotron .....	080	056	156

## CHEMICAL PRINCIPLES

- 076 Antibody inhibition / Etyl-G7-pNP (EPS); photometry
- 156 Antibody inhibition / Indolyl-G7; reflectance

## METHOD GROUPS

- 007 IFCC comparable methods
- 016 Different methods, Scandinavian level
- 032 Different methods, Roche level
- 080 Reflotron, IFCC-level

# 0053 Antitrypsin g/L

Antitry

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Beckman Coulter nephelometry</b>			
Beckman Coulter .....	039	030	191
<b>Other nephelometry</b>			
Binding Site .....	056	705	191
<b>Siemens nephelometry</b>			
BN instruments .....	022	038	191
<b>Turbidimetry</b>			
AU instruments .....	005	036	190
Orion Diagnostica .....	005	140	190
Roche Cobas Integra .....	005	144	190
Roche Cobas Integra Tina-quant .....	005	567	190
Roche Tina-quant .....	005	058	190
Siemens Advia .....	005	553	190
Thermo Fisher Scientific Konelab .....	005	109	190
Vitros 5,1 FS .....	005	669	190

## CHEMICAL PRINCIPLES

- 191 Antigen-antibody (Ag-Ab) complex; nephelometry
- 190 Antigen-antibody (Ag-Ab) complex; turbidimetry
- 185 Radial immunodiffusion

## METHOD GROUPS

- 039 Beckman Coulter nephelometry
- 056 Other nephelometry
- 022 Siemens nephelometry
- 005 Turbidimetry

# 0019 Aspartate aminotransferase U/L

AST

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>IFCC comparable methods</b>			
Abbott Aeroset, Architect .....	006	541	197
ABX Diagnostics .....	006	238	197
ABX Pentra .....	006	617	197
AU instruments .....	006	036	197
Beckman Coulter .....	006	030	197
Biolabo .....	006	258	197
BioSystems .....	006	065	197
Cormay .....	006	071	197
Diagnosticum .....	006	083	197
Diagon .....	006	615	197
Dialab .....	006	085	197
Diasys .....	006	335	197
IL Test .....	006	302	197
Invicon .....	006	737	197
Medix Biochemica .....	006	146	197
Merck .....	006	128	197
Randox .....	006	092	197
Roche .....	006	097	197
Roche cobas .....	006	704	197
Roche Cobas Integra .....	006	144	197
Siemens Advia .....	006	553	197
Siemens Dimension .....	006	180	197
Thermo Fisher Scientific Konelab .....	006	109	197
<b>IFCC comparable methods without P-5-P</b>			
Abbott .....	009	019	199
Abbott Aeroset, Architect .....	009	541	199
ABX Diagnostics .....	009	238	199
ABX Pentra .....	009	617	199
Alfa Wasserman .....	009	710	199
Alpha Diagnostics .....	009	020	199
AMP Diagnostics .....	009	557	199
Analco .....	009	025	199
AU instruments .....	009	036	199
Audit Diagnostics .....	009	616	199
Beckman Coulter .....	009	030	199
Biocon Biozyme .....	009	533	199
Biocon Fluitest .....	009	046	199
Biolabo .....	009	258	199
BioMaxima .....	009	625	199
bioMerieux .....	009	047	199
BioSystems .....	009	065	199
BT Products .....	009	760	199
Centronic .....	009	063	199
Chemitech .....	009	589	199
Cormay .....	009	071	199
Diagnosticum .....	009	083	199
Diagon .....	009	615	199
Dialab .....	009	085	199
Diasys .....	009	335	199
Elitech .....	009	645	199
Futura Systems .....	009	723	199
Gesan .....	009	732	199
Globe Diagnostics .....	009	742	199

	Method group	I D no.	Chemical principle
Greiner Diagnostic	009	219	199
Hemolab	009	757	199
Hospitex	009	221	199
Human	009	112	199
I.S.E. SRL	009	741	199
IL Test	009	302	199
Invicon	009	737	199
Lachema	009	141	199
Linear Chemicals	009	640	199
MG Diagnostic	009	783	199
Olvex	009	207	199
Pars Azmon	009	671	199
Pointe Scientific	009	033	199
Quimica Clinica Aplicada	009	618	199
Randox	009	092	199
Roche	009	097	199
Roche cobas	009	704	199
Roche Cobas Integra	009	144	199
Roche DGKC	009	309	199
SGM	009	632	199
Siemens Advia	009	553	199
Siemens Express	009	080	199
Sinnowa	009	756	199
Spinreact	009	204	199
Thermo Fisher Scientific Konelab	009	109	199
Thermo Trace	009	648	199
Vital Diagnostics	009	211	199
Vitalab	009	743	197
<b>Reflotron</b>			
Reflotron	011	056	096
<b>Spotchem</b>			
Spotchem	019	002	070
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1	003	005	070
<b>Vitros DT60</b>			
Vitros DT 60	015	004	098

#### CHEMICAL PRINCIPLES

096	Alpha-ketoglutarate, Ala-sulphinat, H <sub>2</sub> O <sub>2</sub> , peroxidase/chromogen; reflectance
199	Alpha-ketoglutarate, Asp / NADH consumption; photometry
070	Alpha-ketoglutarate, Asp, P-5-P / H <sub>2</sub> O <sub>2</sub> / peroxidase / chromogen; reflectance
197	Alpha-ketoglutarate, Asp, P-5-P / NADH consumption; photometry
098	Alpha-ketoglutarate, Asp, P-5-P / NADH consumption; reflectance

#### METHOD GROUPS

006	IFCC comparable methods
009	IFCC comparable methods without P-5-P
011	Reflotron
019	Spotchem
003	Vitros 250-950 and 5,1
015	Vitros DT60

# 0016 Bilirubin $\mu\text{mol/L}$

Bil

## METHODS BY METHOD GROUPS

	Method	I D	Chemical
	group	no.	principle
<b>Photometry</b>			
Abbott Aeroset, Architect .....	001	541	008
Abbott Aeroset, Architect .....	001	541	237
ABX Diagnostics .....	001	238	008
ABX Pentra .....	001	617	008
Alfa Wasserman .....	001	710	069
Alpha Diagnostics .....	001	020	008
AMP Diagnostics .....	001	557	008
Analco .....	001	025	008
AU instruments .....	001	036	008
Audit Diagnostics .....	001	616	008
BCP BioSed .....	001	772	049
Beckman Coulter .....	001	030	049
Biocon Fluitest .....	001	046	008
Biolabo .....	001	258	008
BioMaxima .....	001	625	049
bioMerieux .....	001	047	008
BioSystems .....	001	065	008
BioSystems .....	001	065	049
BT Products .....	001	760	008
Centronic .....	001	063	008
Chema Diagnostica .....	001	643	008
Chemlex LabKit .....	001	666	008
Chemitech .....	001	589	008
Cormay .....	001	071	049
Cormay .....	001	071	008
Diaglobe .....	001	778	049
Diagnosticum .....	001	083	049
Diagnosticum .....	001	083	008
Diagon .....	001	615	008
Diagon .....	001	615	049
Dialab .....	001	085	008
Diasys .....	001	335	008
Diasys .....	001	335	049
Elitech .....	001	645	049
Elitech .....	001	645	008
Futura Systems .....	001	723	049
Gesan .....	001	732	049
Globe Diagnostics .....	001	742	049
Greiner Diagnostic .....	001	219	008
Hemolab .....	001	757	008
Hospitex .....	001	221	237
Hospitex .....	001	221	008
Hospitex .....	001	221	069
Human .....	001	112	049
Human DCA .....	001	359	008
I.S.E. SRL .....	001	741	008
IL Test .....	001	302	049
Invicon .....	001	737	049
Lachema .....	001	141	069
Linear Chemicals .....	001	640	008
Linear Chemicals .....	001	640	049
Merck .....	001	128	069
MG Diagnostic .....	001	783	049

	Method group	I D no.	Chemical principle
Pars Azmon .....	001	671	008
Pointe Scientific .....	001	033	008
Randox .....	001	092	008
Randox .....	001	092	049
Randox RX Daytona .....	001	629	008
Roche .....	001	097	049
Roche, acid diazo DPD .....	001	097	008
Roche cobas .....	001	704	008
Roche Cobas Integra, acid diazo, detergent .....	001	144	008
SGM .....	001	632	069
Siemens Advia .....	001	553	247
Siemens Advia .....	001	553	049
Siemens Dimension .....	001	180	049
Siemens Express .....	001	080	008
Sinnowa .....	001	756	049
Spinreact, acid diazo, detergent .....	001	204	008
Spinreact, acid diazo .....	001	204	049
Thermo Fisher Scientific Konelab .....	001	109	008
Thermo Fisher Scientific Konelab NBD .....	001	543	008
Thermo Trace .....	001	648	008
Vitalab .....	001	743	008
Wako .....	001	203	049
<b>Reflotron</b>			
Reflotron .....	011	056	205
<b>Spotchem</b>			
Spotchem .....	019	002	205
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	047
<b>Vitros DT60</b>			
Vitros TBIL DT .....	015	573	201

## CHEMICAL PRINCIPLES

049	Acid diazo, Caffeine, Na-benzoate (Jendrassik-Grof applications); photometry
008	Acid diazo, Detergent (Malloy-Evelyn and applications); photometry
069	Alkaline diazo, Caffeine, Na-benzoate (Jendrassik-Grof applications); photometry
237	Biliverdin, Na nitrite; photometry
201	Dyphylline, benzene diazonium hexafluorophosphate; reflectance
047	Dyphylline, diazonium salt; bichromatic reflectance
205	Jendrassik-Grof applications; reflectance
247	Vanadate oxidation, biliverdin; photometry

## METHOD GROUPS

001	Photometry
011	Reflotron
019	Spotchem
003	Vitros 250-950 and 5,1
015	Vitros DT60

# 0046 Bilirubin, neonatal $\mu\text{mol/L}$

Bil neo

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Bilirubinometers</b>			
Bilirubinometers .....	188	040	094
<b>Photometry</b>			
Abbott Aeroset, Architect .....	001	541	237
Abbott Aeroset, Architect .....	001	541	008
ABX Diagnostics .....	001	238	008
Alpha Diagnostics .....	001	020	008
AU instruments .....	001	036	008
Beckman Coulter .....	001	030	049
Biolabo .....	001	258	008
bioMerieux .....	001	047	008
BioSystems .....	001	065	008
Cormay .....	001	071	049
DCL .....	001	072	049
Diagon .....	001	615	049
Diasys .....	001	335	008
Elitech .....	001	645	008
Gesan .....	001	732	049
Hospitex .....	001	221	008
Human DCA .....	001	359	008
Invicon .....	001	737	049
Lachema .....	001	141	069
Roche, acid diazo DPD .....	001	097	008
Roche cobas .....	001	704	008
Siemens Advia .....	001	553	247
Siemens Advia .....	001	553	049
Siemens Express .....	001	080	008
Siemens Dimension .....	001	180	049
Thermo Fisher Scientific Konelab .....	001	109	008
Thermo Fisher Scientific Konelab NBD .....	001	543	008
Wako .....	001	203	049
<b>Roche Cobas Integra</b>			
Roche Cobas Integra, alkaline diazo .....	053	144	069
Roche Cobas Integra, acid diazo, detergent .....	053	144	008
<b>Vitros 250-950 and 5,1, TBil</b>			
Vitros TBIL .....	100	542	047
<b>Vitros 250-950, BuBc</b>			
Vitros BuBc .....	101	569	202
<b>Blood-gas instruments</b>			
Blood-gas instruments .....	189	726	094

... continues on next page→

**CHEMICAL PRINCIPLES**

- 049 Acid diazo, Caffeine, Na-benzoate (Jendrassik-Grof applications); photometry
- 008 Acid diazo, Detergent (Malloy-Evelyn and applications); photometry
- 069 Alkaline diazo, Caffeine, Na-benzoate (Jendrassik-Grof applications); photometry
- 237 Biliverdin, Na nitrite; photometry
- 202 Caffeine, Na-benzoate; bichromatic reflectance
- 094 Direct measurement; photometry
- 047 Dyphylline, diazonium salt; bichromatic reflectance
- 247 Vanadate oxidation, biliverdin; photometry

**METHOD GROUPS**

- 188 Bilirubinometers
- 001 Photometry
- 053 Roche Cobas Integra
- 100 Vitros 250-950 and 5,1, TBil
- 101 Vitros 250-950, BuBc
- 189 Blood-gas instruments



# 0048 C-reactive protein mg/L

CRP

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Afinion and NycoCard</b>			
Afinion .....	083	699	194
NycoCard Single Test .....	083	563	194
<b>Nephelometry</b>			
Beckman Coulter .....	060	030	191
Binding Site .....	060	705	195
Orion Diagnostica Turbox .....	060	150	191
Siemens nephelometry .....	060	520	195
<b>QuikRead</b>			
Orion Diagnostica QuikRead .....	034	426	190
<b>Turbidimetry</b>			
Abbott Aeroset, Architect .....	005	541	196
ABX Diagnostics .....	005	238	190
ABX Micros CRP .....	005	554	196
ABX Pentra .....	005	617	196
Alfa Wasserman .....	005	710	190
AMP Diagnostics .....	005	557	190
Aqua-Med .....	005	107	196
AU instruments, Latex .....	005	036	196
AU instruments .....	005	036	190
Beckman Coulter .....	005	030	190
Biokit quantex CRP .....	005	578	196
Biomed .....	005	552	196
bioMerieux .....	005	047	190
BioSystems .....	005	065	196
Cormay .....	005	071	190
Dako .....	005	131	190
Diasys .....	005	335	190
Elitech .....	005	645	196
Fitzgerald .....	005	296	190
Futura Systems .....	005	723	196
Human .....	005	112	190
Humatex CRP-latex .....	005	524	196
Invicon .....	005	737	196
Orion Diagnostica .....	005	140	190
Randox .....	005	092	190
Randox CRP Full Range .....	005	764	196
Randox RX Daytona .....	005	629	190
Randox CRP sensitive .....	005	149	196
Roche cobas .....	005	704	196
Roche Cobas Integra .....	005	144	196
Roche cobas Tina-quant .....	005	744	196
Roche Tina-quant .....	005	058	196
Scil Diagnostics .....	005	583	196
Siemens Advia, CRP_2 Assay .....	005	553	196
Siemens Advia .....	005	553	190
Siemens Dimension .....	005	180	196
Siemens Turbiquant .....	005	035	190
Spinreact .....	005	204	190
Thermo Fisher Scientific Konelab .....	005	109	190
Thermo Fisher Scientific Konelab CRP Plus .....	005	730	190

	Method group	I D no.	Chemical principle
<b>Vitros 250-950 and 5,1</b>			
Vitros CRP .....	003	564	194
<b>Other methods</b>			
Omega Diagnostics, Avitex-CRP .....	017	775	170
Siemens Immulite, hsCRP .....	017	084	018

### CHEMICAL PRINCIPLES

- 191 Antigen-antibody (Ag-Ab) complex; nephelometry
- 190 Antigen-antibody (Ag-Ab) complex; turbidimetry
- 195 Antigen-antibody (Ag-Ab) latex complex; nephelometry
- 196 Antigen-antibody (Ag-Ab) latex complex; turbidimetry
- 018 Luminoimmunoassay
- 170 Microparticle agglutination immunoassay
- 194 Sandwich immunometric / dye; reflectance

### METHOD GROUPS

- 083 Afinion and NycoCard
- 060 Nephelometry
- 034 QuikRead
- 005 Turbidimetry
- 003 Vitros 250-950 and 5,1
- 017 Other methods

# 0010 Calcium mmol/L

Ca

## METHODS BY METHOD GROUPS

	Method	I D	Chemical
	group	no.	principle
<b>AAS and flame photometry</b>			
Atomic absorption spectrophotometry .....	066	001	118
Flame photometry, internal Li-standard .....	066	193	032
<b>Complexometric titration</b>			
Ca-titrator .....	084	288	164
<b>Photometry</b>			
Abbott Aeroset, Architect .....	001	541	036
ABX Diagnostics .....	001	238	036
ABX Pentra .....	001	617	022
Alfa Wasserman .....	001	710	036
Alpha Diagnostics, arsenazo .....	001	020	036
Alpha Diagnostics, OCP .....	001	020	022
AMP Diagnostics .....	001	557	036
AU instruments, arsenazo .....	001	036	036
AU instruments, OCP .....	001	036	022
Audit Diagnostics .....	001	616	036
Audit Diagnostics .....	001	616	022
Beckman Coulter, arsenazo .....	001	030	036
Biocon Fluitest .....	001	046	022
Biocon Fluitest .....	001	046	036
Biolabo .....	001	258	022
Biolabo .....	001	258	036
BioMaxima .....	001	625	022
bioMerieux, MTB .....	001	047	090
bioMerieux, OCP .....	001	047	022
BioSystems, MTB .....	001	065	090
BioSystems .....	001	065	022
BioSystems .....	001	065	036
BT Products .....	001	760	036
Centronic .....	001	063	036
Chema Diagnostica .....	001	643	022
Chemlex LabKit .....	001	666	022
Chemitech .....	001	589	036
Cormay .....	001	071	022
Cypress Diagnostics .....	001	621	036
Darman Kave .....	001	689	022
Diagnosticum .....	001	083	036
Diagnosticum .....	001	083	022
Diagon .....	001	615	036
Diagon .....	001	615	022
Dialab .....	001	085	036
Diasis Diagnostik Sistemier .....	001	659	036
Diasys .....	001	335	036
Diasys .....	001	335	022
Elitech .....	001	645	036
Elitech .....	001	645	022
Futura Systems .....	001	723	022
Gesan .....	001	732	022
Gesan .....	001	732	036
Globe Diagnostics .....	001	742	022
Greiner Diagnostic .....	001	219	036
Greiner Diagnostic .....	001	219	022
Hemolab .....	001	757	022
Hospitex .....	001	221	022
Human .....	001	112	022
I.S.E. SRL .....	001	741	036
IL Test .....	001	302	022
Invicon .....	001	737	022
Linear Chemicals .....	001	640	022
Media .....	001	679	022
MG Diagnostic .....	001	783	036
Olvex-Diagnosticum .....	001	093	022

	Method group	I D no.	Chemical principle
Pars Azmon .....	001	671	022
Pars Azmon .....	001	671	036
Pointe Scientific, OCP .....	001	033	022
Prodia .....	001	713	022
ProDiagnostics .....	001	622	022
Quimica Clinica Aplicada .....	001	618	022
Randox .....	001	092	036
Randox .....	001	092	022
Randox RX Daytona .....	001	629	036
Randox RX Daytona .....	001	629	022
Roche .....	001	097	022
Roche Cobas .....	001	704	022
Roche Cobas Integra .....	001	144	022
SGM .....	001	632	022
Siemens Advia, OCP .....	001	553	022
Siemens Advia, arsenatso .....	001	553	036
Siemens Dimension .....	001	180	022
Siemens Express .....	001	080	022
Space .....	001	738	036
Spinreact .....	001	204	022
Thermo Fisher Scientific Konelab .....	001	109	036
Thermo Trace .....	001	648	036
Vital Diagnostics .....	001	211	036
Vitalab .....	001	743	036
<b>Potentiometry</b>			
ISE .....	070	360	132
<b>Spotchem</b>			
Spotchem .....	019	002	137
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	065
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	065

#### CHEMICAL PRINCIPLES

036	Arsenazo III; photometry
065	Arsenazo III; reflectance
164	EGTA/Calcein; complexometric titration
032	Emission flame photometry
118	Inhibition of anion interference with lanthanum; atomic absorption spectrophotometry
132	ISE; potentiometry
090	Methylthymol blue (MTB); photometry
022	o-Cresolphthalein (OCP); photometry
137	o-Cresolphthalein (OCP); reflectance

#### METHOD GROUPS

066	AAS and flame photometry
084	Complexometric titration
001	Photometry
070	Potentiometry
019	Spotchem
003	Vitros 250-950 and 5,1
015	Vitros DT60

# 0049 Calcium, ionized mmol/L

Ca-Ion

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>ISE direct</b>			
ABX Diagnostics .....	004	238	187
Easylite.....	004	801	187
IL blood gas and electrolyte analysers .....	004	800	187
Nova Biomedical electrolyte analysers .....	004	803	187
Radiometer blood gas analyser .....	004	326	187
Roche blood gas and electrolyte analysers .....	004	797	187
Siemens blood gas and electrolyte analysers .....	004	796	187
Thermo Fisher Scientific electrolyte analysers .....	004	799	187
Thermo Fisher Scientific Konelab .....	004	109	187
ISE direct, others .....	004	009	187
<b>Calculated</b>			
Calculated .....	190	422	038

## CHEMICAL PRINCIPLES

038 Calculated  
187 Direct potentiometry

## METHOD GROUPS

004 ISE direct  
190 Calculated

# 0054 Calcium, ionized, pH corrected mmol/L

Ca-ion,pH7.4

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>ISE direct</b>			
Easylite.....	004	801	187
IL blood gas and electrolyte analysers .....	004	800	187
Nova Biomedical electrolyte analysers .....	004	803	187
Radiometer blood gas analyzer .....	004	326	187
Roche blood gas and electrolyte analysers .....	004	797	187
Siemens blood gas and electrolyte analysers .....	004	796	187
Thermo Fisher Scientific electrolyte analysers .....	004	799	187
Thermo Fisher Scientific Konelab .....	004	109	187
ISE direct, others .....	004	009	187

## CHEMICAL PRINCIPLES

187 Direct potentiometry

## METHOD GROUPS

004 ISE direct

# 0003 Chloride mmol/L

Cl

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>ISE direct</b>			
ABX Diagnostics .....	004	238	187
Easylite .....	004	801	187
IL blood gas and electrolyte analysers .....	004	800	187
Radiometer blood gas analyzer .....	004	326	187
Roche blood gas and electrolyte analysers .....	004	797	187
Roche Cobas Integra .....	004	144	187
Siemens blood gas and electrolyte analysers .....	004	796	187
Thermo Fisher Scientific electrolyte analysers .....	004	799	187
Thermo Fisher Scientific Konelab .....	004	109	187
ISE direct, others .....	004	009	187
<b>ISE indirect</b>			
Abbott Aeroset .....	010	700	188
Abbott Architect .....	010	544	188
AU instruments .....	010	036	188
Beckman Coulter Synchron .....	010	636	188
Beckman Coulter UniCel .....	010	623	188
Roche .....	010	097	188
Roche cobas .....	010	704	188
Roche Cobas Integra .....	010	144	188
Siemens Advia .....	010	553	188
Siemens Dimension .....	010	180	188
ISE indirect, others .....	010	008	188
<b>Photometry and titrimetry</b>			
Alpha Diagnostics .....	040	020	092
AMP Diagnostics .....	040	557	092
AMS Liasys .....	040	628	000
Audit Diagnostics .....	040	616	092
bioMerieux .....	040	047	092
Diagnosticum .....	040	083	092
Dialab .....	040	085	092
Gesan .....	040	732	092
Hospitex .....	040	221	092
Human, Human .....	040	112	138
Chloride titrator .....	040	414	114
Linear Chemicals .....	040	640	092
Pars Azmon .....	040	671	092
Pointe Scientific .....	040	033	092
Radox .....	040	092	138
Siemens Express .....	040	080	092
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	187
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	187

## CHEMICAL PRINCIPLES

114	Coulometric titration
187	Direct potentiometry
188	Indirect potentiometry
092	Mercuric thiocyanate / ferric nitrate; photometry
138	TPTZ / mercuric nitrate / ferrous sulphate; photometry

## METHOD GROUPS

004	ISE direct	003	Vitros 250-950 and 5,1
010	ISE indirect	015	Vitros DT60
040	Photometry and titrimetry		

# 0014 Cholesterol mmol/L

Chol

## METHODS BY METHOD GROUPS

	Method	I D	Chemical
	group	no.	principle
<b>Photometry, enzymatic</b>			
Abbott Aeroset, Architect .....	002	541	004
ABX Diagnostics .....	002	238	004
ABX Pentra .....	002	617	004
Alfa Wasserman .....	002	710	004
Alpha Diagnostics .....	002	020	004
AMP Diagnostics .....	002	557	004
Analco .....	002	025	004
AU instruments .....	002	036	004
Audit Diagnostics .....	002	616	004
Beckman Coulter .....	002	030	004
Biocon Biosub .....	002	041	004
Biocon Fluitest .....	002	046	004
Biolabo .....	002	258	004
BioMaxima .....	002	625	004
bioMerieux .....	002	047	004
BioSystems .....	002	065	004
BT Products .....	002	760	004
Centronic .....	002	063	004
Chema Diagnostica .....	002	643	004
Chemlex LabKit .....	002	666	004
Chemitech .....	002	589	004
Cormay .....	002	071	004
Diagnosticum .....	002	083	004
Diagon .....	002	615	004
Dialab .....	002	085	004
Diasys .....	002	335	004
Elitech .....	002	645	004
Futura Systems .....	002	723	004
Gesan .....	002	732	004
Globe Diagnostics .....	002	742	004
Greiner Diagnostic .....	002	219	004
Hemolab .....	002	757	004
Hospitex .....	002	221	004
Human .....	002	112	004
I.S.E. SRL .....	002	741	004
IL Test .....	002	302	004
Invicon .....	002	737	004
Lachema .....	002	141	004
Linear Chemicals .....	002	640	004
Medix Biochemica .....	002	146	004
Merck PAP .....	002	187	004
MG Diagnostic .....	002	783	004
Pars Azmon .....	002	671	004
Pointe Scientific .....	002	033	004
Quimica Clinica Aplicada .....	002	618	004
Randox .....	002	092	004
Randox RX Daytona .....	002	629	004
Roche .....	002	097	004
Roche cobas .....	002	704	004
Roche Cobas Integra .....	002	144	004
SGM .....	002	632	004
Siemens Advia .....	002	553	004
Siemens Dimension .....	002	180	004



	Method group	I D no.	Chemical principle
Siemens Express .....	002	080	004
Sinnowa .....	002	756	004
Spinreact .....	002	204	004
Thermo Fisher Scientific Konelab .....	002	109	004
Thermo Trace .....	002	648	004
Vital Diagnostics .....	002	211	004
<b>Reflotron</b>			
Reflotron .....	011	056	030
<b>Spotchem</b>			
Spotchem .....	019	002	030
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	030
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	030

#### CHEMICAL PRINCIPLES

- 004 Cholesterol esterase, cholesterol oxidase, H<sub>2</sub>O<sub>2</sub>, peroxidase / chromogen; photometry
- 030 Cholesterol esterase, cholesterol oxidase, H<sub>2</sub>O<sub>2</sub>, peroxidase / chromogen; reflectance

#### METHOD GROUPS

- 002 Photometry, enzymatic
- 011 Reflotron
- 019 Spotchem
- 003 Vitros 250-950 and 5,1
- 015 Vitros DT60

# 0047 Cholesterol, high density lipoproteins mmol/L

Chol-HDL

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Dextran sulphate precipitation</b>			
Thermo Fisher Scientific Konelab .....	054	109	035
<b>Direct Chol-HDL, Abbott</b>			
Abbott .....	196	019	010
Abbott Aeroset, Architect .....	196	541	010
<b>Direct Chol-HDL , Beckman Coulter</b>			
AU instruments .....	198	036	010
Beckman Coulter .....	198	030	010
<b>Direct Chol-HDL, BioSystems</b>			
BioSystems .....	200	065	010
<b>Direct Chol-HDL, Thermo Fisher Scientific Konelab</b>			
Thermo Fisher Scientific Konelab .....	102	109	010
Thermo Fisher Scientific Konelab HDL Cholesterol Plus .....	102	707	010
<b>Direct Chol-HDL, other methods</b>			
A.L. Instrument .....	012	740	010
ABX Diagnostics .....	012	238	010
ABX Pentra .....	012	617	010
Alfa Wasserman .....	012	710	010
AMP Diagnostics .....	012	557	010
Audit Diagnostics .....	012	616	010
Biolabo .....	012	258	010
BioMaxima .....	012	625	010
bioMerieux .....	012	047	010
BT Products .....	012	760	010
Centronic .....	012	063	010
Chema Diagnostica .....	012	643	010
Cormay .....	012	071	010
Diagnosticum .....	012	083	010
Diagon .....	012	615	010
Dialab .....	012	085	010
Diasys .....	012	335	010
Elitech .....	012	645	010
Futura Systems .....	012	723	010
Greiner Diagnostic .....	012	219	010
Human .....	012	112	010
I.S.E. SRL .....	012	741	010
IL Test .....	012	302	010
Invicon .....	012	737	010
Lachema .....	012	141	010
Linear Chemicals .....	012	640	010
MG Diagnostic .....	012	783	010
Quimica Clinica Aplicada .....	012	618	010
Randox, pegme .....	012	092	010
Randox RX Daytona .....	012	629	010
Randox, clearance .....	012	547	010
Sentinel .....	012	565	010
SGM .....	012	632	010
Spinreact .....	012	204	010
Thermo Trace .....	012	648	010
Wako .....	012	203	010

	Method group	I D no.	Chemical principle
<b>Direct Chol-HDL, Roche systems</b>			
Roche .....	186	097	010
Roche cobas .....	186	704	010
Roche Cobas Integra .....	186	144	010
<b>Direct Chol-HDL, Siemens</b>			
Siemens Advia .....	202	553	010
Siemens Dimension .....	202	180	010
<b>PEG precipitation</b>			
Alpha Diagnostics .....	067	020	124
Chema Diagnostica .....	067	643	124
Media .....	067	679	124
Pointe Scientific .....	067	033	124
SGM .....	067	632	124
<b>Phosphotungstate precipitation</b>			
AMP Diagnostics .....	028	557	041
Analco .....	028	025	041
Biocon Fluitest .....	028	046	041
Biolabo .....	028	258	041
bioMerieux .....	028	047	041
BioSystems .....	028	065	041
Chemitech .....	028	589	041
Cormay .....	028	071	041
Diagnosticum .....	028	083	041
Diagon .....	028	615	041
Elitech .....	028	645	041
Hospitex .....	028	221	041
Human .....	028	112	041
I.S.E. SRL .....	028	741	041
Lachema .....	028	141	041
Linear Chemicals .....	028	640	041
Pars Azmon .....	028	671	041
Randox .....	028	092	041
Roche .....	028	097	041
Spinreact .....	028	204	041
<b>Reflotron</b>			
Reflotron .....	011	056	035
<b>Spotchem</b>			
Spotchem .....	019	002	035
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	035
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	035
<b>Direct Chol-HDL, Vitros</b>			
Vitros 250-950 and 5,1 .....	183	005	010

## CHEMICAL PRINCIPLES

- 035 Dextran sulphate/Mg<sup>++</sup> precipitation; Cholesterol determination of the supernatant
- 010 Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines
- 041 Phosphotungstate/Mg<sup>++</sup> precipitation; Cholesterol determination of the supernatant
- 124 Polyethylene glycol (PEG) precipitation; Cholesterol determination of the supernatant

## METHOD GROUPS

- 054 Dextran sulphate precipitation
- 196 Direct Chol-HDL, Abbott
- 198 Direct Chol-HDL, Beckman Coulter
- 200 Direct Chol-HDL, BioSystems
- 102 Direct Chol-HDL, Thermo Fisher Scientific Konelab
- 012 Direct Chol-HDL, other methods
- 186 Direct Chol-HDL, Roche systems
- 202 Direct Chol-HDL, Siemens
- 067 PEG precipitation
- 028 Phosphotungstate precipitation
- 011 Reflotron
- 019 Spotchem
- 003 Vitros 250-950 and 5,1
- 015 Vitros DT60
- 183 Direct Chol-HDL, Vitros

# 0056 Cholesterol, low density lipoproteins mmol/L

Chol-LDL

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Direct Chol-LDL, Abbott</b>			
Abbott .....	197	019	046
Abbott Aeroset, Architect .....	197	541	046
<b>Direct Chol-LDL , Beckman Coulter</b>			
AU instruments .....	199	036	046
Beckman Coulter .....	199	030	046
<b>Direct Chol-LDL, BioSystems</b>			
BioSystems .....	201	065	046
<b>Direct Chol-LDL, Thermo Fisher Scientific Konelab</b>			
Thermo Fisher Scientific Konelab .....	105	109	046
<b>Direct Chol-LDL, other methods</b>			
ABX Diagnostics .....	030	238	046
ABX Pentra .....	030	617	046
Alfa Wasserman .....	030	710	046
AMP Diagnostics .....	030	557	046
Biolabo .....	030	258	046
bioMerieux .....	030	047	046
BT Products .....	030	760	046
Chema Diagnostica .....	030	643	046
Cormay .....	030	071	046
Diagnosticum .....	030	083	046
Diagon .....	030	615	046
Diasys .....	030	335	046
Elitech .....	030	645	046
Genzyme N-geneous .....	030	324	046
Greiner Diagnostic .....	030	219	046
Human .....	030	112	046
I.S.E. SRL .....	030	741	046
IL Test .....	030	302	046
Invicon .....	030	737	046
Lachema .....	030	141	046
Linear Chemicals .....	030	640	046
MG Diagnostic .....	030	783	046
Pars Azmon .....	030	671	046
Randox .....	030	092	046
Sentinel .....	030	565	046
Spinreact .....	030	204	046
Vitalab .....	030	743	046
Wako .....	030	203	046
<b>Direct Chol-LDL, Roche-systems</b>			
Roche .....	187	097	046
Roche cobas .....	187	704	046
Roche Cobas Integra .....	187	144	046
<b>Direct Chol-LDL, Siemens</b>			
Siemens Advia .....	203	553	046
Siemens Dimension .....	203	180	046

	Method group	I D no.	Chemical principle
<b>Friedewald's formula</b>			
Friedewald's formula .....	027	217	038
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	046

#### CHEMICAL PRINCIPLES

- 038 Calculated
- 046 Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines

#### METHOD GROUPS

- 197 Direct Chol-LDL, Abbott
- 199 Direct Chol-LDL , Beckman Coulter
- 201 Direct Chol-LDL, BioSystems
- 105 Direct Chol-LDL, Thermo Fisher Scientific Konelab
- 030 Direct Chol-LDL, other methods
- 187 Direct Chol-LDL, Roche-systems
- 203 Direct Chol-LDL, Siemens
- 027 Friedewald's formula
- 003 Vitros 250-950 and 5,1

# 0061 Complement C3 g/L

C3

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Nephelometry</b>			
Beckman Coulter .....	060	030	191
Binding Site .....	060	705	191
Siemens nephelometry .....	060	520	191
<b>Turbidimetry</b>			
Abbott .....	005	019	190
Dako .....	005	131	190
Lachema .....	005	141	190
Pars Azmon .....	005	671	190
Randox.....	005	092	190
Roche .....	005	097	190
Roche Cobas Integra .....	005	144	190
Siemens Advia .....	005	553	190
Thermo Fisher Scientific Konelab .....	005	109	190

## CHEMICAL PRINCIPLES

- 191 Antigen-antibody (Ag-Ab) complex; nephelometry
- 190 Antigen-antibody (Ag-Ab) complex; turbidimetry

## METHOD GROUPS

- 060 Nephelometry
- 005 Turbidimetry

# 0062 Complement C4 g/L

C4

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Nephelometry</b>			
Beckman Coulter .....	060	030	191
Binding Site .....	060	705	191
Siemens nephelometry .....	060	520	191
<b>Turbidimetry</b>			
Dako .....	005	131	190
Lachema .....	005	141	190
Pars Azmon .....	005	671	190
Randox.....	005	092	190
Roche .....	005	097	190
Roche Cobas Integra .....	005	144	190
Siemens Advia .....	005	553	190
Thermo Fisher Scientific Konelab .....	005	109	190

## CHEMICAL PRINCIPLES

- 191 Antigen-antibody (Ag-Ab) complex; nephelometry
- 190 Antigen-antibody (Ag-Ab) complex; turbidimetry

## METHOD GROUPS

- 060 Nephelometry
- 005 Turbidimetry

# 0038 Copper $\mu\text{mol/L}$

Cu

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Atomic absorption spectrophotometry</b>			
Atomic absorption spectrophotometry .....	038	001	066
<b>Atomic emission spectrophotometry</b>			
ICP-ES .....	191	306	172
<b>Photometry</b>			
AMP Diagnostics .....	001	557	159
Audit Diagnostics .....	001	616	159
BioVendor .....	001	182	159
Chema Diagnostica .....	001	643	159
Lachema .....	001	141	121
Merck .....	001	128	121
Pars Azmon .....	001	671	121
Randox .....	001	092	159
Roche .....	001	097	121
Roche .....	001	097	159
Thermo Electron Co .....	001	631	251
<b>Mass spectrometry</b>			
ICP-MS .....	347	795	252

## CHEMICAL PRINCIPLES

066	Atomic absorption spectrophotometry
121	Bathocuproin / chromogen; photometry
159	di-Br-PAESA; photometry
172	Emission spectrometry
251	Guanidine HCl, 5-Br-PSAA; photometry
252	Mass spectrometry

## METHOD GROUPS

038	Atomic absorption spectrophotometry
191	Atomic emission spectrophotometry
001	Photometry
347	Mass spectrometry



# 0030 Cortisol nmol/L

## Cortisol

### METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Orion Diagnostica</b>			
Orion Diagnostica SPECTRIA .....	063	153	085
<b>Roche systems</b>			
Roche cobas .....	185	704	027
Roche Elecsys .....	185	060	027
Roche Modular E .....	185	560	027
<b>Siemens Advia Centaur &amp; ACS</b>			
Siemens Advia Centaur .....	033	539	018
<b>Siemens Immulite</b>			
Siemens Immulite .....	026	084	018
<b>Other methods</b>			
Abbott Architect .....	017	544	018
Abbott AxSym .....	017	014	075
Adaltis .....	017	590	034
Beckman Coulter Access .....	017	018	018
bioMerieux Vidas .....	017	059	034
DiaSorin Liaison .....	017	624	018
DRG Diagnostics .....	017	634	034
DSL .....	017	321	085
Monobind ELISA .....	017	736	034
Organics .....	017	718	034
Pars Azmon .....	017	671	085
Perkin Elmer Delfia / AutoDelfia .....	017	134	062
Vitros ECI .....	017	003	018

### CHEMICAL PRINCIPLES

027	Electrochemiluminescence immunoassay
034	Enzyme immunoassay
075	Fluorescence polarization immunoassay
018	Luminoimmunoassay
085	Radioimmunoassay
062	Time-resolved fluoroimmunoassay

### METHOD GROUPS

063	Orion Diagnostica
185	Roche systems
033	Siemens Advia Centaur & ACS
026	Siemens Immulite
017	Other methods

# 0021 Creatine kinase U/L

CK

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>IFCC comparable methods</b>			
Abbott Aeroset, Architect .....	007	541	013
ABX Diagnostics .....	007	238	013
ABX Pentra .....	007	617	013
ACE .....	007	747	013
Alfa Wasserman .....	007	710	013
Alpha Diagnostics .....	007	020	013
AMP Diagnostics .....	007	557	013
AU instruments .....	007	036	013
Beckman Coulter .....	007	030	013
Biocon .....	007	642	013
Biolabo .....	007	258	013
Biomed .....	007	552	013
bioMerieux .....	007	047	013
BioSystems .....	007	065	013
Chema Diagnostica .....	007	643	013
Chemitech .....	007	589	013
Cormay .....	007	071	013
Diagnosticum .....	007	083	013
Diagon .....	007	615	013
Dialab .....	007	085	013
Diasys .....	007	335	013
Elitech .....	007	645	013
Gesan .....	007	732	013
Greiner Diagnostic .....	007	219	013
Hospitex .....	007	221	013
Human .....	007	112	013
IL Test .....	007	302	013
Invicon .....	007	737	013
Linear Chemicals .....	007	640	013
Merck .....	007	128	013
Pars Azmon .....	007	671	013
Randox .....	007	092	013
Roche .....	007	097	013
Roche cobas .....	007	704	013
Roche Cobas Integra .....	007	144	013
Rolf Greiner BioChemica .....	007	650	013
SGM .....	007	632	013
Siemens Advia .....	007	553	013
Siemens Express .....	007	080	013
Thermo Fisher Scientific Konelab .....	007	109	013
Thermo Trace .....	007	648	013
<b>Other methods</b>			
Audit Diagnostics .....	042	616	126
Autolab .....	042	712	126
Biocon Biozyme .....	042	533	126
BT Products .....	042	760	126
Diagnosticum .....	042	083	126
Pointe Scientific .....	042	033	126
Siemens Dimension .....	042	180	126
<b>Reflotron</b>			
Reflotron .....	011	056	198

	Method group	I D no.	Chemical principle
<b>Spotchem</b>			
Spotchem .....	019	002	056
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	056
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	056

#### CHEMICAL PRINCIPLES

- 198 Creatine-P, ADP, NAC activator / H2O2, peroxidase, chromogen; reflectance
- 013 Creatine-P, ADP, NAC activator / NADPH; photometry
- 056 Creatine-P, ADP, NAC activator / NADPH; reflectance
- 126 Other kinetic methods; photometry

#### METHOD GROUPS

- 007 IFCC comparable methods
- 042 Other methods
- 011 Reflotron
- 019 Spotchem
- 003 Vitros 250-950 and 5,1
- 015 Vitros DT60

# 0005 Creatinine $\mu\text{mol/L}$

Crea

## METHODS BY METHOD GROUPS

	Method	I D	Chemical
	group	no.	principle
<b>Photometry, enzymatic</b>			
Abbott Aeroset, Architect .....	002	541	999
AU instruments .....	002	036	129
Biomed .....	002	552	130
Diasys .....	002	335	130
Elitech .....	002	645	130
Invicon .....	002	737	130
Roche, Plus .....	002	097	130
Roche cobas .....	002	704	130
Roche Cobas Integra .....	002	144	130
Sentinel .....	002	565	130
Siemens Advia .....	002	553	241
Thermo Fisher Scientific Konelab .....	002	109	130
<b>Photometry, Jaffe</b>			
Abbott Aeroset, Architect .....	008	541	200
ABX Diagnostics .....	008	238	200
ABX Pentra .....	008	617	200
Alfa Wasserman .....	008	710	200
Alpha Diagnostics .....	008	020	200
AMP Diagnostics .....	008	557	200
Analco .....	008	025	200
AU instruments .....	008	036	200
Audit Diagnostics .....	008	616	200
Beckman Coulter .....	008	030	200
Biocon Fluitest .....	008	046	200
Biolabo .....	008	258	200
bioMerieux .....	008	047	200
BioSystems .....	008	065	200
Biotrol .....	008	052	200
BT Products .....	008	760	200
Chema Diagnostica .....	008	643	200
Chemitech .....	008	589	200
Cormay .....	008	071	200
Diagnosticum .....	008	083	200
Diagon .....	008	615	200
Dialab .....	008	085	200
Diasys .....	008	335	200
Elitech .....	008	645	200
Futura Systems .....	008	723	200
Gesan .....	008	732	200
Globe Diagnostics .....	008	742	200
Greiner Diagnostic .....	008	219	200
Hemolab .....	008	757	200
Hospitex .....	008	221	200
Human .....	008	112	200
I.S.E. SRL .....	008	741	200
IL Test .....	008	302	200
Invicon .....	008	737	200
Lachema .....	008	141	200
Linear Chemicals .....	008	640	200
Merck .....	008	128	200
MG Diagnostic .....	008	783	200
Olvex .....	008	207	200

	Method group	I D no.	Chemical principle
Pars Azmon .....	008	671	200
Pointe Scientific .....	008	033	200
Quimica Clinica Aplicada .....	008	618	200
Randox .....	008	092	200
Randox RX Daytona .....	008	629	200
Reagena .....	008	102	200
Roche .....	008	097	200
Roche cobas .....	008	704	200
Roche Cobas Integra .....	008	144	200
SGM .....	008	632	200
Siemens Advia .....	008	553	200
Siemens Dimension .....	008	180	200
Siemens Express .....	008	080	200
Sinnowa .....	008	756	200
Spinreact .....	008	204	200
Thermo Fisher Scientific Konelab .....	008	109	200
Thermo Fisher Scientific Konelab Compens Jaffe .....	008	771	200
Thermo Trace .....	008	648	200
Vital Diagnostics .....	008	211	200
Vitalab .....	008	743	200
<b>Reflotron</b>			
Reflotron .....	011	056	039
<b>Spotchem</b>			
Spotchem .....	019	002	105
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	039
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	039

#### CHEMICAL PRINCIPLES

105	3,5-Dinitrobenzoic acid; reflectance
200	Alkaline picrate (Jaffe); photometry
130	Creatininase / PAP; photometry
241	Creatinine deiminase / NADPH; photometry
129	Enzyme / H <sub>2</sub> O <sub>2</sub> / chromogen; photometry
039	Enzyme / H <sub>2</sub> O <sub>2</sub> / chromogen; reflectance

#### METHOD GROUPS

002	Photometry, enzymatic
008	Photometry, Jaffe
011	Reflotron
019	Spotchem
003	Vitros 250-950 and 5,1
015	Vitros DT60

# 0051 Digitoxin nmol/L

Digit

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Abbott</b>			
Abbott Architect .....	014	544	034
Abbott AxSym .....	014	014	075
Abbott Quantia .....	014	653	034
Abbott TDx .....	014	017	075
<b>Roche systems</b>			
Roche cobas .....	185	704	027
Roche Cobas Integra .....	185	144	034
Roche Elecsys .....	185	060	027
<b>Siemens Advia Centaur &amp; ACS</b>			
Siemens Advia Centaur .....	033	539	018
<b>Siemens Immulite</b>			
Siemens Immulite .....	026	084	018
<b>Roche ONLINE TDM</b>			
Roche ONLINE TDM .....	182	651	190

## CHEMICAL PRINCIPLES

190	Antigen-antibody (Ag-Ab) complex; turbidimetry
027	Electrochemiluminescence immunoassay
034	Enzyme immunoassay
075	Fluorescence polarization immunoassay
018	Luminoimmunoassay

## METHOD GROUPS

014	Abbott
185	Roche systems
033	Siemens Advia Centaur & ACS
026	Siemens Immulite
182	Roche ONLINE TDM

# 035 Ferritin $\mu\text{g/L}$

## Ferritin

### METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Abbott</b>			
Abbott Architect .....	014	544	018
Abbott AxSym .....	014	014	021
Abbott IMx .....	014	015	021
<b>Roche systems</b>			
Roche cobas .....	185	704	027
Roche Cobas Integra .....	185	144	196
Roche Elecsys .....	185	060	027
Roche Modular E .....	185	560	027
Roche Tina-quant .....	185	058	196
<b>Siemens Advia Centaur &amp; ACS</b>			
Siemens ACS .....	033	011	018
Siemens Advia Centaur .....	033	539	018
<b>Siemens Immulite</b>			
Siemens Immulite .....	026	084	018
<b>Siemens Immuno 1</b>			
Siemens Immuno 1 .....	068	148	034
<b>Vitros ECI</b>			
Vitros ECI .....	055	003	018
<b>Perkin Elmer Delfia/Auto Delfia</b>			
Perkin Elmer Delfia / AutoDelfia .....	041	134	062
<b>Other methods</b>			
Abbott Quantia .....	017	653	136
ABX Pentra .....	017	617	196
AccuBind .....	017	709	034
Adaltis .....	017	590	034
AU instruments .....	017	036	196
Beckman Coulter Access .....	017	018	018
bioMerieux Vidas .....	017	059	063
BioSystems .....	017	065	196
ClinPro .....	017	665	034
Cormay .....	017	071	190
BN instruments .....	017	038	195
DiaSorin Liaison .....	017	624	018
Diasys .....	017	335	136
DRG Diagnostics .....	017	634	034
Linear Chemicals .....	017	640	136
Novatec .....	017	728	034
Orgentec Diagnostika .....	017	687	034
Pars Azmon .....	017	671	034
Pars Azmon .....	017	671	085
Radim S.p. A. reagents .....	017	654	034
Siemens Dimension .....	017	180	034

## **CHEMICAL PRINCIPLES**

- 190 Antigen-antibody (Ag-Ab) complex; turbidimetry
- 195 Antigen-antibody (Ag-Ab) latex complex; nephelometry
- 196 Antigen-antibody (Ag-Ab) latex complex; turbidimetry
- 027 Electrochemiluminescence immunoassay
- 063 Enzym-fluoroimmunoassay
- 034 Enzyme immunoassay
- 136 Latex-immunoturbidimetry
- 018 Luminoimmunoassay
- 021 Microparticle enzyme immunoassay
- 085 Radioimmunoassay
- 062 Time-resolved fluoroimmunoassay

## **METHOD GROUPS**

- 014 Abbott
- 041 Perkin Elmer Delfia/Auto Delfia
- 185 Roche systems
- 062 Roche Tina-quant
- 033 Siemens Advia Centaur & ACS
- 026 Siemens Immulite
- 068 Siemens Immuno 1
- 055 Vitros ECi
- 017 Other methods



# 0009 Glucose mmol/L

## Glucose

### METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Amperometry</b>			
Amperometric analyzer .....	035	007	080
Beckman Coulter .....	035	030	080
<b>Hemocue</b>			
Hemocue glucose, whole blood .....	048	556	084
Hemocue glucose, plasma .....	048	558	084
<b>Photometry</b>			
Abbott Aeroset, Architect .....	001	541	017
ABX Diagnostics, HK .....	001	238	017
ABX Diagnostics, GOD-PAP .....	001	238	028
ABX Pentra .....	001	617	028
Alfa Wasserman .....	001	710	028
Alpha Diagnostics, GOD-PAP .....	001	020	028
AMP Diagnostics .....	001	557	028
Analco .....	001	025	028
AU instruments .....	001	036	017
Audit Diagnostics, GOD POD .....	001	616	028
Beckman Coulter, HK .....	001	030	017
Biocon Biosub .....	001	041	028
Biocon Fluitest .....	001	046	028
Biolabo .....	001	258	028
BioMaxima .....	001	625	028
bioMerieux .....	001	047	028
BioSystems .....	001	065	028
BT Products .....	001	760	028
Centronic .....	001	063	017
Centronic, GOD-PAP .....	001	063	028
Chemitech .....	001	589	028
Cormay .....	001	071	028
Diagnosticum .....	001	083	028
Diagon .....	001	615	028
Dialab .....	001	085	028
Diasys, GOD-PAP .....	001	335	028
Diasys .....	001	335	017
Elitech .....	001	645	028
Futura Systems .....	001	723	028
Gesan .....	001	732	028
Globe Diagnostics .....	001	742	028
Greiner Diagnostic .....	001	219	028
Hemolab .....	001	757	028
Hospitex .....	001	221	028
Human .....	001	112	028
Human .....	001	112	017
I.S.E. SRL .....	001	741	028
IL Test .....	001	302	028
IL Test .....	001	302	017
Invicon .....	001	737	017
Lachema .....	001	141	028
Linear Chemicals .....	001	640	028
Merck, GDH .....	001	128	051
MG Diagnostic .....	001	783	028
Pars Azmon .....	001	671	028

	Method group	I D no.	Chemical principle
Pointe Scientific .....	001	033	028
Randox, GOD-PAP .....	001	092	028
Randox, HK .....	001	092	017
Randox RX Daytona .....	001	629	028
Roche, HK .....	001	097	017
Roche cobas .....	001	704	017
Roche Cobas Integra .....	001	144	017
Roche GOD-PAP .....	001	268	028
SGM .....	001	632	028
Siemens Advia .....	001	553	028
Siemens Advia .....	001	553	017
Siemens Dimension .....	001	180	017
Siemens Express .....	001	080	017
Sinnowa .....	001	756	028
Spinreact .....	001	204	028
Thermo Fisher Scientific Konelab, GOD, POD .....	001	109	028
Thermo Fisher Scientific Konelab, HK .....	001	109	017
Thermo Trace .....	001	648	028
<b>Reflotron</b>			
Reflotron .....	011	056	037
<b>Spotchem</b>			
Spotchem .....	019	002	037
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	037
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	037

## CHEMICAL PRINCIPLES

051	Glucose dehydrogenase, mutarotase / NADH; photometry
084	Glucose dehydrogenase, mutarotase, diaphorase / NADH / MTTH; photometry
080	Glucose oxidase / H <sub>2</sub> O <sub>2</sub> - or O <sub>2</sub> -electrode; amperometry
028	Glucose oxidase, H <sub>2</sub> O <sub>2</sub> / chromogen; photometry
037	Glucose oxidase, H <sub>2</sub> O <sub>2</sub> / chromogen; reflectance
017	Hexokinase, glucose-6-P-dehydrogenase / NADH; photometry

## METHOD GROUPS

035	Amperometry
048	Hemocue
001	Photometry
011	Reflotron
019	Spotchem
003	Vitros 250-950 and 5,1
015	Vitros DT60

# 0032 Glutamyl transferase U/L

GT

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>IFCC comparable methods</b>			
Abbott Aeroset, Architect .....	007	541	023
ABX Diagnostics .....	007	238	023
ABX Pentra .....	007	617	029
Alfa Wasserman .....	007	710	029
AMP Diagnostics .....	007	557	023
AU instruments .....	007	036	023
Beckman Coulter .....	007	030	023
Biocon .....	007	642	023
Biolabo .....	007	258	029
Biolabo .....	007	258	023
BioSystems .....	007	065	023
BT Products .....	007	760	023
Centronic .....	007	063	023
Diagnosticum .....	007	083	023
Diagon .....	007	615	112
Dialab .....	007	085	029
Diasys .....	007	335	029
Elitech .....	007	645	023
Greiner Diagnostic .....	007	219	023
Human .....	007	112	029
IL Test .....	007	302	023
Invicon .....	007	737	023
Lachema .....	007	141	023
Linear Chemicals .....	007	640	023
Medix Biochemica .....	007	146	023
MG Diagnostic .....	007	783	023
Quimica Clinica Aplicada .....	007	618	023
Randox .....	007	092	023
Roche .....	007	097	029
Roche, IFCC .....	007	097	023
Roche cobas .....	007	704	029
Roche Cobas Integra .....	007	144	029
Siemens Advia .....	007	553	029
Siemens Dimension .....	007	180	023
Siemens Express .....	007	080	023
Thermo Fisher Scientific Konelab .....	007	109	023
Thermo Trace .....	007	648	023
<b>GLUCANA-Tris, original level</b>			
AMP Diagnostics .....	029	557	029
AU instruments .....	029	036	029
Audit Diagnostics, Audit Diagnostics .....	029	616	029
Biocon Biozyme .....	029	533	029
Biocon Fluitest .....	029	046	029
Biolabo .....	029	258	029
BioMaxima .....	029	625	029
Chema Diagnostica .....	029	643	029
Clinilab .....	029	587	029
Cormay .....	029	071	029
Diagnosticum .....	029	083	029
Diagon .....	029	615	029
Diasys .....	029	335	029
Elitech .....	029	645	029
Futura Systems .....	029	723	029
Gesan .....	029	732	029
Globe Diagnostics .....	029	742	029
Hospitex .....	029	221	029
Human .....	029	112	029

	Method group	I D no.	Chemical principle
I.S.E. SRL .....	029	741	029
Media .....	029	679	029
Pars Azmon .....	029	671	029
Pointe Scientific .....	029	033	029
Randox .....	029	092	029
Roche .....	029	097	029
SGM .....	029	632	029
Spinreact .....	029	204	029
Thermo Fisher Scientific Konelab .....	029	109	029
Vital Diagnostics .....	029	211	029
Vitalab .....	029	743	029
<b>GLUNA, original level</b>			
Alpha Diagnostics .....	043	020	086
bioMerieux .....	043	047	086
Chemitech .....	043	589	112
Futura Systems .....	043	723	149
Hospitex .....	043	221	112
Lachema .....	043	141	086
Pointe Scientific .....	043	033	149
Randox .....	043	092	086
<b>Reflotron, IFCC-level</b>			
Reflotron .....	080	056	089
<b>Reflotron</b>			
Reflotron .....	011	056	089
<b>Spotchem</b>			
Spotchem .....	019	002	045
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	045
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	045

#### CHEMICAL PRINCIPLES

089	GLUCA-phenylenediamine, glycyglycine / dye; reflectance
023	GLUCANA, glycyglycine / p-nitroanilin; photometry
029	GLUCANA, glycyglycine, Tris / p-nitroanilin; photometry
045	GLUNA, glycyglycine / p-nitroanilin; reflectance
149	GLUNA, glycyglycine, AMP / p-nitroanilin; photometry
086	GLUNA, glycyglycine, Tris / p-nitroanilin; photometry
112	Other kinetic methods; photometry

#### METHOD GROUPS

007	IFCC comparable methods
029	GLUCANA-Tris, original level
043	GLUNA, original level
080	Reflotron, IFCC-level
011	Reflotron
019	Spotchem
003	Vitros 250-950 and 5,1
015	Vitros DT60

# 0031 Haemoglobin g/L

Hb

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Photometry</b>			
ABX Diagnostics .....	001	238	011
Baker .....	001	026	011
Beckman Coulter .....	001	030	011
BioSystems .....	001	065	011
Biotest Hemoglobin U .....	001	529	019
Cell-Dyn, Cyanide-free .....	001	308	110
Cell-Dyn .....	001	308	011
Diagnosticum .....	001	083	011
Diasys .....	001	335	011
Hemocue .....	001	298	019
Labnova .....	001	202	011
Linear Chemicals .....	001	640	011
Mindray .....	001	793	110
Nihon Kohden .....	001	550	011
Reagent .....	001	102	011
Siemens .....	001	049	011
Siemens Advia .....	001	553	011
Systemex reagent, Instruments: K-1000, K-4500, K-800, SE-9000/9500, SF-3000, XE-2100 .....	001	571	031
Systemex reagent, Instruments: Others.....	001	571	011
Systemex reagent, Instruments: KX-21N.....	001	571	110
<b>Photometry, direct measurement</b>			
Radiometer blood gas analyzer .....	049	326	142
<b>Reflotron</b>			
Reflotron .....	011	056	123

## CHEMICAL PRINCIPLES

- 019 Azidmethemoglobin; photometry
- 110 Cyanide-free methemoglobin; photometry
- 011 Cyanmethemoglobin (hemoglobin cyanide); photometry
- 123 Cyanmethemoglobin; reflectance photometry
- 031 Na-laurylsulphate; photometry
- 142 Oxyhaemoglobin; direct measurement

## METHOD GROUPS

- 001 Photometry
- 049 Photometry, direct measurement
- 011 Reflotron

# 0029 Haptoglobin g/L

Haptog

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Beckman Coulter nephelometry</b>			
Beckman Coulter	039	030	191
<b>Other nephelometry</b>			
Orion Diagnostica Turbox .....	056	150	191
<b>Siemens nephelometry</b>			
BN instruments .....	022	038	191
<b>Turbidimetry</b>			
Abbott Aeroset, Architect .....	005	541	190
Siemens Turbiquant .....	005	035	190
Dako .....	005	131	190
Roche Cobas Integra Tina-quant .....	005	567	190
Roche cobas Tina-quant .....	005	744	190
Roche Tina-quant .....	005	058	190
Siemens Advia .....	005	553	190
Thermo Fisher Scientific Konelab .....	005	109	190
Vitros 5,1 FS .....	005	669	190
<b>RID</b>			
RID .....	184	303	185

## CHEMICAL PRINCIPLES

- 191 Antigen-antibody (Ag-Ab) complex; nephelometry
- 190 Antigen-antibody (Ag-Ab) complex; turbidimetry
- 185 Radial immunodiffusion

## METHOD GROUPS

- 039 Beckman Coulter nephelometry
- 056 Other nephelometry
- 022 Siemens nephelometry
- 005 Turbidimetry
- 184 RID

# 0042 Immunoglobulin A g/L

IgA

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Beckman Coulter nephelometry</b>			
Beckman Coulter .....	039	030	191
<b>Other nephelometry</b>			
Binding Site .....	056	705	191
Orion Diagnostica Turbox .....	056	150	191
<b>Siemens nephelometry</b>			
BN instruments .....	022	038	191
<b>Turbidimetry</b>			
Abbott Aeroset, Architect .....	005	541	190
ABX Diagnostics .....	005	238	190
AU instruments .....	005	036	190
Beckman Coulter .....	005	030	190
BioSystems .....	005	065	190
DiAgam .....	005	794	190
Diasys .....	005	335	190
Futura Systems .....	005	723	190
Invicon .....	005	737	190
Linear Chemicals .....	005	640	190
Merck .....	005	128	190
Orion Diagnostica .....	005	140	190
Pars Azmon .....	005	671	190
Randox RX Daytona .....	005	629	190
Roche Cobas Integra .....	005	144	190
Roche cobas Tina-quant .....	005	744	190
Roche Tina-quant .....	005	058	190
Siemens Advia .....	005	553	190
Siemens Dimension .....	005	180	190
Siemens Turbiquant .....	005	035	190
Spinreact .....	005	204	190
Thermo Fisher Scientific Konelab .....	005	109	190
Vitros 5,1 FS .....	005	669	190
<b>RID</b>			
Biocientifica .....	184	717	185
Far Diagnostics .....	184	683	185
Human .....	184	112	185
Institute Cantacuzino .....	184	711	185
Liofilchem .....	184	722	185

## CHEMICAL PRINCIPLES

191	Antigen-antibody (Ag-Ab) complex; nephelometry
190	Antigen-antibody (Ag-Ab) complex; turbidimetry
185	Radial immunodiffusion

## METHOD GROUPS

039	Beckman Coulter nephelometry
056	Other nephelometry
022	Siemens nephelometry
005	Turbidimetry
184	RID

# 0043 Immunoglobulin E kU/L

## IgE

### METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Abbott</b>			
Abbott Aeroset, Architect .....	014	541	179
Abbott IMx .....	014	015	021
<b>Phadia</b>			
Phadia CAP IgE FEIA .....	061	176	063
<b>Roche Cobas Core</b>			
Roche Cobas Core .....	057	139	034
<b>Roche systems</b>			
Roche Elecsys .....	185	060	027
Roche Modular E .....	185	560	027
<b>Siemens Advia Centaur &amp; ACS</b>			
Siemens ACS .....	033	011	018
Siemens Advia Centaur .....	033	539	018
<b>Siemens Immulite</b>			
Siemens Immulite .....	026	084	018
<b>Other methods</b>			
AMP Diagnostics .....	017	557	034
Beckman Coulter Access .....	017	018	018
bioMerieux Vidas .....	017	059	063
ClinPro .....	017	665	034
BN instruments .....	017	038	139
Diasys .....	017	335	179
DRG Diagnostics .....	017	634	034
Human .....	017	112	034
Pars Azmon .....	017	671	034
Pishtaz teb .....	017	690	034
Randox .....	017	092	139
Roche .....	017	097	179
Spinreact .....	017	204	179
Trinity biotech .....	017	592	034
Veda.Lab .....	017	781	034

### CHEMICAL PRINCIPLES

027	Electrochemiluminescence immunoassay
063	Enzym-fluoroimmunoassay
034	Enzyme immunoassay
139	Latex agglutination nephelometry and immunoassay
179	Latex-agglutination, immunoturbidimetry
018	Luminoimmunoassay
021	Microparticle enzyme immunoassay

### METHOD GROUPS

014	Abbott
061	Phadia
057	Roche Cobas Core
185	Roche systems
033	Siemens Advia Centaur & ACS
026	Siemens Immulite
017	Other methods



# 0044 Immunoglobulin G g/L

IgG

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Beckman Coulter nephelometry</b>			
Beckman Coulter .....	039	030	191
<b>Other nephelometry</b>			
Binding Site .....	056	705	191
Orion Diagnostica Turbox .....	056	150	191
<b>Siemens nephelometry</b>			
BN instruments .....	022	038	191
<b>Turbidimetry</b>			
Abbott Aeroset, Architect .....	005	541	190
ABX Diagnostics .....	005	238	190
AU instruments .....	005	036	190
Beckman Coulter .....	005	030	190
BioSystems .....	005	065	190
Dako .....	005	131	190
DiAgam .....	005	794	190
Diasys .....	005	335	190
Greiner Diagnostic .....	005	219	190
Invicon .....	005	737	190
Linear Chemicals .....	005	640	190
Merck .....	005	128	190
Orion Diagnostica .....	005	140	190
Pars Azmon .....	005	671	190
Roche Cobas Integra .....	005	144	190
Roche cobas Tina-quant .....	005	744	190
Roche Tina-quant .....	005	058	190
Rotest .....	005	716	190
Siemens Advia .....	005	553	190
Siemens Turbiquant .....	005	035	190
Spinreact .....	005	204	190
Thermo Fisher Scientific Konelab .....	005	109	190
Vitros 5,1 FS .....	005	669	190
<b>RID</b>			
Biocientifica .....	184	717	185
Human .....	184	112	185
Institute Cantacuzino .....	184	711	185
Liofilchem .....	184	722	185

## CHEMICAL PRINCIPLES

- 191 Antigen-antibody (Ag-Ab) complex; nephelometry
- 190 Antigen-antibody (Ag-Ab) complex; turbidimetry
- 185 Radial immunodiffusion

## METHOD GROUPS

- 039 Beckman Coulter nephelometry
- 056 Other nephelometry
- 022 Siemens nephelometry
- 005 Turbidimetry
- 184 RID

# 0045 Immunoglobulin M g/L

## IgM

### METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Beckman Coulter nephelometry</b>			
Beckman Coulter .....	039	030	191
<b>Other nephelometry</b>			
Binding Site .....	056	705	191
Orion Diagnostica Turbox .....	056	150	191
<b>Siemens nephelometry</b>			
BN instruments .....	022	038	191
<b>Turbidimetry</b>			
Abbott Aeroset, Architect .....	005	541	190
ABX Diagnostics .....	005	238	190
AU instruments .....	005	036	190
Beckman Coulter .....	005	030	190
BioSystems .....	005	065	190
Diasys .....	005	335	190
Invicon .....	005	737	190
Linear Chemicals .....	005	640	190
Merck .....	005	128	190
Orion Diagnostica .....	005	140	190
Pars Azmon .....	005	671	190
Randox RX Daytona .....	005	629	190
Roche Cobas Integra .....	005	144	190
Roche cobas Tina-quant .....	005	744	190
Roche Tina-quant .....	005	058	190
Siemens Advia .....	005	553	190
Siemens Turbiquant .....	005	035	190
Spinreact .....	005	204	190
Thermo Fisher Scientific Konelab .....	005	109	190
Vitros 5,1 FS .....	005	669	190
<b>RID</b>			
Biocientifica .....	184	717	185
Human .....	184	112	185
Institute Cantacuzino .....	184	711	185
Liofilchem .....	184	722	185

### CHEMICAL PRINCIPLES

- 191 Antigen-antibody (Ag-Ab) complex; nephelometry
- 190 Antigen-antibody (Ag-Ab) complex; turbidimetry
- 185 Radial immunodiffusion

### METHOD GROUPS

- 039 Beckman Coulter nephelometry
- 056 Other nephelometry
- 022 Siemens nephelometry
- 005 Turbidimetry
- 184 RID

# 0023 Iron $\mu\text{mol/L}$

Fe

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Photometry</b>			
Abbott Aeroset, Architect .....	001	541	055
ABX Pentra .....	001	617	055
Alfa Wasserman .....	001	710	026
Alpha Diagnostics .....	001	020	026
AMP Diagnostics .....	001	557	026
Analco .....	001	025	095
Archem .....	001	782	095
AU instruments .....	001	036	141
Audit Diagnostics .....	001	616	055
Audit Diagnostics .....	001	616	026
Beckman Coulter .....	001	030	026
Biocon Fluitest .....	001	046	026
Biocon Fluitest .....	001	046	161
Biolabo .....	001	258	026
Biolabo .....	001	258	055
BioMaxima .....	001	625	055
bioMerieux, ferrozine .....	001	047	026
bioMerieux, ferene .....	001	047	055
BioSystems .....	001	065	026
Biotrol .....	001	052	026
BT Products .....	001	760	026
Centronic .....	001	063	026
Chema Diagnostica .....	001	643	095
Chemlex LabKit .....	001	666	026
Chemitech .....	001	589	095
Cormay .....	001	071	055
Cormay .....	001	071	026
Diagnosticum .....	001	083	026
Diagnosticum .....	001	083	095
Diagon .....	001	615	026
Diagon .....	001	615	055
Dialab .....	001	085	055
Diasys .....	001	335	055
Elitech .....	001	645	026
Elitech .....	001	645	095
Futura Systems .....	001	723	055
Gesan .....	001	732	055
Globe Diagnostics .....	001	742	095
Greiner Diagnostic .....	001	219	026
Hemolab .....	001	757	026
Hospitex .....	001	221	095
Human .....	001	112	026
Human .....	001	112	095
I.S.E. SRL .....	001	741	055
IL Test .....	001	302	055
Invicon .....	001	737	026
Lachema, ferrozine .....	001	141	026
Linear Chemicals .....	001	640	026
Linear Chemicals .....	001	640	141
Media .....	001	679	055
Media .....	001	679	026
MG Diagnostic .....	001	783	245
MG Diagnostic .....	001	783	026

	Method group	I D no.	Chemical principle
Pars Azmon .....	001	671	055
Pointe Scientific .....	001	033	026
Prodia .....	001	713	095
Quimica Clinica Aplicada .....	001	618	026
Randox .....	001	092	055
Randox .....	001	092	026
Randox RX Daytona .....	001	629	026
Roche .....	001	097	026
Roche cobas .....	001	704	026
Roche Cobas Integra .....	001	144	026
SGM .....	001	632	055
Siemens Advia .....	001	553	026
Siemens Dimension .....	001	180	055
Siemens Express, ferene .....	001	080	055
Spinreact .....	001	204	026
Spinreact .....	001	204	141
Thermo DMA .....	001	619	000
Thermo Fisher Scientific Konelab, ferene .....	001	109	055
Thermo Fisher Scientific Konelab, ferrozine .....	001	109	026
Thermo Trace .....	001	648	055
Vital Diagnostics .....	001	211	026
Vitalab .....	001	743	055
Zeist Chemi .....	001	688	055
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	082
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	082

#### CHEMICAL PRINCIPLES

- 095 Chromazurol B (CAB); photometry
- 055 Ferene; photometry
- 026 Ferrozine; photometry
- 245 Nitro PAPS; photometry
- 082 Pyridylazo chromogen; reflectance
- 161 Sulphonated batophenanthroline (SBP); photometry
- 141 TPTZ; photometry

#### METHOD GROUPS

- 001 Photometry
- 003 Vitros 250-950 and 5,1
- 015 Vitros DT60

# 0022 Lactate dehydrogenase U/L

LD

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>IFCC comparable methods</b>			
Abbott Aeroset, Architect .....	052	541	067
ABX Pentra .....	052	617	067
AU instruments .....	052	036	067
Beckman Coulter .....	052	030	067
BioSystems .....	052	065	067
BT Products .....	052	760	067
Diagnosticum .....	052	083	067
Diasys .....	052	335	067
Greiner Diagnostic .....	052	219	067
Invicon .....	052	737	067
Roche .....	052	097	067
Roche cobas .....	052	704	067
Roche Cobas Integra .....	052	144	067
Siemens Advia .....	052	553	067
Siemens Dimension .....	052	180	067
Siemens Express .....	052	080	067
Thermo Fisher Scientific Konelab .....	052	109	067
<b>SCE-, DGKC-, SFBC-recommendations</b>			
ABX Pentra .....	020	617	061
ACE .....	020	747	061
AMP Diagnostics .....	020	557	061
AU instruments .....	020	036	061
Audit Diagnostics .....	020	616	061
Beckman Coulter .....	020	030	061
Biocon Biozyme .....	020	533	061
Biolabo .....	020	258	061
bioMerieux, DGKC .....	020	047	061
BioSystems .....	020	065	061
Biotrol .....	020	052	061
Chemitech .....	020	589	061
Cormay .....	020	071	061
Diagnosticum .....	020	083	061
Diagon .....	020	615	061
Diasys .....	020	335	061
Elitech .....	020	645	061
Futura Systems .....	020	723	061
Gesan .....	020	732	061
Giese Diagnostics .....	020	774	061
Greiner Diagnostic .....	020	219	061
Hospitex .....	020	221	061
Human, SCE .....	020	112	061
Human DGKC .....	020	574	061
I.S.E. SRL .....	020	741	061
IL Test .....	020	302	061
Linear Chemicals .....	020	640	061
Pars Azmon .....	020	671	061
Randox, SCE .....	020	092	061
Randox DGKC .....	020	575	061
Roche cobas .....	020	704	061
Roche Cobas Integra DGKC .....	020	548	061
Roche DGKC .....	020	309	061
SGM .....	020	632	061

	Method group	I D no.	Chemical principle
Thermo Fisher Scientific Konelab, SCE .....	020	109	061
Thermo Trace .....	020	648	061
<b>Different methods calculated to SCE</b>			
Analco .....	047	025	106
Beckman Coulter .....	047	030	067
Roche .....	047	097	067
Roche Cobas Integra .....	047	144	067
Spinreact .....	047	204	067
<b>Vitros 250-950 and 5,1, calculated to IFCC level</b>			
Vitros 250-950 and 5,1 .....	098	005	071
<b>Vitros 250-950 and 5,1, calculated to SCE</b>			
Vitros 250-950 and 5,1 .....	045	005	071
<b>Vitros 250-950 and 5,1, original level</b>			
Vitros 250-950 and 5,1 .....	081	005	071
<b>Vitros DT60, original level</b>			
Vitros DT 60 .....	097	004	071

#### CHEMICAL PRINCIPLES

067	Lactate, NAD / NADH; photometry
106	Other kinetic methods; photometry
061	Pyruvate, NADH / NAD; photometry
071	Pyruvate, NADH / NAD; reflectance

#### METHOD GROUPS

052	IFCC comparable methods
020	SCE-, DGKC-, SFBC-recommendations
047	Different methods calculated to SCE
098	Vitros 250-950 and 5,1, calculated to IFCC level
045	Vitros 250-950 and 5,1, calculated to SCE
081	Vitros 250-950 and 5,1, original level
097	Vitros DT60, original level

# 0004 Lactic acid mmol/L

Lactate

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Amperometry, Radiometer</b>			
Blood-gas instruments .....	192	726	088
<b>Amperometry, Roche</b>			
Blood-gas instruments .....	193	726	088
<b>Amperometry, others</b>			
Amperometric analyzer .....	194	007	088
Blood-gas instruments .....	194	726	088
<b>Photometry, enzymatic</b>			
Abbott Aeroset, Architect .....	002	541	081
AU instruments .....	002	036	081
Beckman Coulter .....	002	030	081
bioMerieux .....	002	047	081
Diasys .....	002	335	081
Randox .....	002	092	081
Roche .....	002	097	081
Roche cobas .....	002	704	081
Roche Cobas Integra .....	002	144	081
Siemens Advia .....	002	553	999
Siemens Dimension .....	002	180	150
Sigma .....	002	050	150
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	104
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	104

## CHEMICAL PRINCIPLES

- 081 Lactate oxidase / H<sub>2</sub>O<sub>2</sub> / 4-aminoantipyrene; photometry
- 104 Lactate oxidase / H<sub>2</sub>O<sub>2</sub> / 4-aminoantipyrene; reflectance
- 088 Lactate oxidase / H<sub>2</sub>O<sub>2</sub> electrode; amperometry
- 150 LD / hydrazine / NADH; photometry

## METHOD GROUPS

- 192 Amperometry, Radiometer
- 193 Amperometry, Roche
- 194 Amperometry, others
- 002 Photometry, enzymatic
- 003 Vitros 250-950 and 5,1
- 015 Vitros DT60

# 0040 Lithium mmol/L

Li

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Atomic absorption spectrophotometry</b>			
Atomic absorption spectrophotometry .....	038	001	066
<b>Flame photometry</b>			
Flame photometry, without internal standard .....	025	156	032
Flame photometry, internal Cs-standard .....	025	192	032
Flame photometry, internal K standard .....	025	419	032
Pars Azmon .....	025	671	032
<b>ISE direct</b>			
Easylite .....	004	801	187
IL blood gas and electrolyte analysers .....	004	800	187
Roche blood gas and electrolyte analysers .....	004	797	187
Roche Cobas Integra .....	004	144	187
Siemens blood gas and electrolyte analysers .....	004	796	187
Thermo Fisher Scientific electrolyte analysers .....	004	799	187
Thermo Fisher Scientific Konelab .....	004	109	187
ISE direct, others .....	004	009	187
<b>ISE indirect</b>			
Roche cobas .....	010	704	188
Roche Cobas Integra .....	010	144	188
ISE indirect, others .....	010	008	188
<b>Photometry</b>			
Abbott Aeroset, Architect .....	001	541	171
Diazyme .....	001	780	169
Roche cobas .....	001	704	169
Siemens Advia .....	001	553	171
Siemens Dimension .....	001	180	171
Thermo Electron Co .....	001	631	171
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	204
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	204

## CHEMICAL PRINCIPLES

066	Atomic absorption spectrophotometry
171	Chromogen
204	Crown-ether azo dye / dye complex; reflectance
187	Direct potentiometry
032	Emission flame photometry
169	Enzymatic method; absorption photometry
188	Indirect potentiometry

## METHOD GROUPS

038	Atomic absorption spectrophotometry
025	Flame photometry
004	ISE direct
010	ISE indirect
001	Photometry
003	Vitros 250-950 and 5,1
015	Vitros DT60



# 0011 Magnesium mmol/L

Mg

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Atomic absorption spectrophotometry</b>			
Atomic absorption spectrophotometry .....	038	001	118
<b>Photometry</b>			
Abbott Aeroset, Architect .....	001	541	036
ABX Pentra .....	001	617	044
Alfa Wasserman .....	001	710	044
Alpha Diagnostics, arsenazo .....	001	020	036
Alpha Diagnostics, calmagite .....	001	020	060
AMP Diagnostics .....	001	557	060
AMP Diagnostics .....	001	557	044
Analco .....	001	025	060
AU instruments .....	001	036	044
Beckman Coulter .....	001	030	060
Biocon Fluitest .....	001	046	04
Biolabo .....	001	258	060
Biolabo .....	001	258	044
BioMaxima .....	001	625	163
bioMerieux .....	001	047	060
BioSystems .....	001	065	060
BT Products .....	001	760	036
Centronic .....	001	063	044
Chema Diagnostica .....	001	643	060
Chemlex LabKit .....	001	666	060
Chemitech .....	001	589	060
Cormay .....	001	071	044
Diagnosticum .....	001	083	044
Diagon .....	001	615	044
Dialab .....	001	085	044
Dialab .....	001	085	148
Diasys .....	001	335	060
Diasys .....	001	335	044
Elitech .....	001	645	060
Futura Systems .....	001	723	044
Gesan .....	001	732	044
Globe Diagnostics .....	001	742	044
Greiner Diagnostic .....	001	219	044
Hemolab .....	001	757	044
Hospitex .....	001	221	060
Human .....	001	112	044
I.S.E. SRL .....	001	741	060
IL Test .....	001	302	060
Invicon .....	001	737	044
Linear Chemicals .....	001	640	060
MG Diagnostic .....	001	783	044
Pars Azmon .....	001	671	044
Pointe Scientific .....	001	033	060
Quimica Clinica Aplicada .....	001	618	060
Randox, xylydyl blue .....	001	092	044
Randox, calmagite .....	001	092	060
Roche .....	001	097	044
Roche cobas .....	001	704	083
Roche Cobas Integra .....	001	144	083
SGM .....	001	632	044

	Method group	I D no.	Chemical principle
Siemens Advia .....	001	553	044
Siemens Dimension .....	001	180	090
Siemens Express, xylidyl blue .....	001	080	044
Siemens Express, magonsulphonate .....	001	080	163
Spinreact .....	001	204	060
Thermo Fisher Scientific Konelab, xylidyl blue .....	001	109	044
Thermo Trace .....	001	648	036
Vital Diagnostics .....	001	211	044
Vitalab .....	001	743	044
Zeist Chemi .....	001	688	044
<b>Spotchem</b>			
Spotchem .....	019	002	137
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	079
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	079

#### CHEMICAL PRINCIPLES

036	Arsenazo III; photometry
060	Calmagite; photometry
083	Chlorophosphonazo III (CPZ III); photometry
079	Formazan; reflectance
148	Glucokinase / G-6-PDH / NADPH; photometry
118	Inhibition of anion interference with lanthanum; atomic absorption spectrophotometry
163	Magonsulphonate; photometry
090	Methylthymol blue (MTB); photometry
137	o-Cresolphthalein (OCP); reflectance
044	Xylidyl blue; photometry

#### METHOD GROUPS

038	Atomic absorption spectrophotometry
001	Photometry
019	Spotchem
003	Vitros 250-950 and 5,1
015	Vitros DT60

# 0050 Osmolality mosm/kg

Osmol

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>All</b>			
Vapour pressure method .....	031	357	166
Freezing point method .....	031	010	053

## CHEMICAL PRINCIPLES

- 053 Freezing point depression osmometry
- 166 Vapour pressure osmometry

## METHOD GROUPS

- 031 All

# 0012 Phosphorus mmol/L

Pi

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Photometry</b>			
Abbott Aeroset, Architect .....	001	541	014
ABX Pentra .....	001	617	014
Alpha Diagnostics .....	001	020	014
AMP Diagnostics .....	001	557	014
Analco .....	001	025	014
AU instruments .....	001	036	014
Audit Diagnostics .....	001	616	152
Beckman Coulter .....	001	030	014
Biocon Fluitest .....	001	046	014
Biolabo .....	001	258	152
BioMaxima .....	001	625	152
bioMerieux, UV-photometry .....	001	047	014
BioSystems .....	001	065	014
BT Products .....	001	760	014
Cormay .....	001	071	014
Diagnosticum .....	001	083	014
Diagon .....	001	615	014
Dialab .....	001	085	243
Diasys .....	001	335	014
Elitech .....	001	645	014
Gesan .....	001	732	152
Greiner Diagnostic .....	001	219	014
Hospitex .....	001	221	014
Human .....	001	112	014
I.S.E. SRL .....	001	741	243
IL Test .....	001	302	014
Lachema .....	001	141	165
Linear Chemicals .....	001	640	014
Pars Azmon .....	001	671	014
Pointe Scientific .....	001	033	014
Randox .....	001	092	014
Roche, UV-photometry .....	001	097	014
Roche cobas .....	001	704	014
Roche Cobas Integra .....	001	144	014
SGM .....	001	632	014
Siemens Advia .....	001	553	014
Siemens Dimension .....	001	180	014
Siemens Express .....	001	080	014
Spinreact .....	001	204	014
Thermo Fisher Scientific Konelab .....	001	109	014
Thermo Trace .....	001	648	014
<b>Spotchem</b>			
Spotchem .....	019	002	073
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	073
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	073

### **CHEMICAL PRINCIPLES**

- 014 Ammonium molybdate, phosphomolybdate complex, without reducing agent or deproteinization; photometry
- 165 Ammonium molybdate, reducing agent / molybdenum blue, deproteinization: photometry
- 152 Ammonium molybdate, reducing agent / molybdenum blue, without deproteinization: photometry
- 243 Ammonium molybdate, reducing agent; photometry
- 073 Ammonium molybdate, reducing agent; reflectance

### **METHOD GROUPS**

- 001 Photometry
- 019 Spotchem
- 003 Vitros 250-950 and 5,1
- 015 Vitros DT60

# 0002 Potassium mmol/L

K

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Flame photometry</b>			
Flame photometry, without internal standard .....	025	156	032
Flame photometry, internal Cs-standard .....	025	192	032
Flame photometry, internal Li-standard .....	025	193	032
Pars Azmon .....	025	671	032
<b>ISE direct</b>			
Abbott i-STAT .....	004	721	187
ABX Diagnostics .....	004	238	187
Easylite .....	004	801	187
IL blood gas and electrolyte analysers .....	004	800	187
Radiometer blood gas analyzer .....	004	326	187
Roche blood gas and electrolyte analysers .....	004	797	187
Roche Cobas Integra .....	004	144	187
Siemens blood gas and electrolyte analysers .....	004	796	187
Thermo Fisher Scientific electrolyte analysers .....	004	799	187
Thermo Fisher Scientific Konelab .....	004	109	187
ISE direct, others .....	004	009	187
<b>ISE indirect</b>			
Abbott Aeroset .....	010	700	188
Abbott Architect .....	010	544	188
AU instruments .....	010	036	188
Beckman Coulter Synchron .....	010	636	188
Beckman Coulter UniCel .....	010	623	188
Roche .....	010	097	188
Roche cobas .....	010	704	188
Roche Cobas Integra .....	010	144	188
Siemens Advia .....	010	553	188
Siemens Dimension .....	010	180	188
ISE indirect, others .....	010	008	188
<b>Photometry</b>			
Centronic .....	001	063	246
Futura Systems .....	001	723	246
Futura Systems .....	001	723	127
Greiner Diagnostic .....	001	219	127
Hospitex .....	001	221	127
Human .....	001	112	127
Linear Chemicals .....	001	640	127
Randox .....	001	092	127
Spinreact .....	001	204	127
<b>Reflotron</b>			
Reflotron .....	011	056	057
<b>Spotchem</b>			
Spotchem .....	019	002	187
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	187
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	187

**CHEMICAL PRINCIPLES**

- 057 Chromogenic ionophore: Complex Valinomycin-pH indicator-K; reflectance
- 187 Direct potentiometry
- 032 Emission flame photometry
- 188 Indirect potentiometry
- 246 TPB-Na, without deproteinization; turbidimetry
- 127 TPB-Na; deproteinisation; turbidimetry

**METHOD GROUPS**

- 025 Flame photometry
- 004 ISE direct
- 010 ISE indirect
- 001 Photometry
- 011 Reflotron
- 019 Spotchem
- 003 Vitros 250-950 and 5,1
- 015 Vitros DT60

# 0007 Protein g/L

Prot

## METHODS BY METHOD GROUPS

	Method	I D	Chemical
	group	no.	principle
<b>Photometry</b>			
Abbott Aeroset, Architect .....	001	541	016
ABX Diagnostics .....	001	238	016
ABX Pentra .....	001	617	016
Alfa Wasserman .....	001	710	016
Alpha Diagnostics .....	001	020	016
AMP Diagnostics .....	001	557	016
AU instruments .....	001	036	016
Audit Diagnostics .....	001	616	016
Beckman Coulter .....	001	030	016
Biocon Fluitest .....	001	046	016
Biolabo .....	001	258	016
BioMaxima .....	001	625	016
bioMerieux .....	001	047	016
BioSystems .....	001	065	016
BT Products .....	001	760	016
Centronic .....	001	063	016
Chema Diagnostica .....	001	643	016
Chemitech .....	001	589	016
Cormay .....	001	071	016
Cromatest .....	001	696	016
Diagnosticum .....	001	083	016
Diagon .....	001	615	016
Dialab .....	001	085	016
Diasys .....	001	335	016
Elitech .....	001	645	016
Futura Systems .....	001	723	016
Gesan .....	001	732	016
Globe Diagnostics .....	001	742	016
Greiner Diagnostic .....	001	219	016
Hemolab .....	001	757	016
Hospitex .....	001	221	016
Human .....	001	112	016
I.S.E. SRL .....	001	741	016
IL Test .....	001	302	016
Invicon .....	001	737	016
Lachema .....	001	141	016
Linear Chemicals .....	001	640	016
MG Diagnostic .....	001	783	016
Olvex .....	001	207	016
Pars Azmon .....	001	671	016
Pointe Scientific .....	001	033	016
Randox .....	001	092	016
Randox RX Daytona .....	001	629	016
Roche .....	001	097	016
Roche cobas .....	001	704	016
Roche Cobas Integra .....	001	144	016
SGM .....	001	632	016
Siemens Advia .....	001	553	016
Siemens Dimension .....	001	180	016
Siemens Express .....	001	080	016
Spinreact .....	001	204	016
Thermo Fisher Scientific Konelab .....	001	109	016
Thermo Trace .....	001	648	016



	Method group	I D no.	Chemical principle
<b>Refractometry</b>			
Refractometrical method .....	074	177	144
<b>Spotchem</b>			
Spotchem .....	019	002	077
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	077
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	077

#### CHEMICAL PRINCIPLES

- 016 Biuret method; photometry
- 077 Biuret method; reflectance
- 144 Refractometry

#### METHOD GROUPS

- 001 Photometry
- 074 Refractometry
- 019 Spotchem
- 003 Vitros 250-950 and 5,1
- 015 Vitros DT60

# 0039 Selenium $\mu\text{mol/L}$

Se

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Atomic absorption spectrophotometry</b>			
Atomic absorption spectrophotometry .....	038	001	066
Graphite furnace AAS .....	038	220	066
<b>Atomic emission spectrophotometry</b>			
Thermo Electron Co .....	191	631	250
<b>Fluorometry</b>			
Fluorimetric method .....	173	581	239
<b>Mass spectrometry</b>			
ICP-MS .....	347	795	252

## CHEMICAL PRINCIPLES

066	Atomic absorption spectrophotometry
239	Diaminonaphthalene; fluorimetry
250	ICP-AES hybride
252	Mass spectrometry

## METHOD GROUPS

038	Atomic absorption spectrophotometry
191	Atomic emission spectrophotometry
173	Fluorometry
347	Mass spectrometry

# 0001 Sodium mmol/L

Na

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Flame photometry</b>			
Flame photometry, without internal standard .....	025	156	032
Flame photometry, internal Cs-standard .....	025	192	032
Flame photometry, internal Li-standard .....	025	193	032
Pars Azmon .....	025	671	032
<b>ISE direct</b>			
Abbott i-STAT .....	004	721	187
ABX Diagnostics .....	004	238	187
Easylite .....	004	801	187
IL blood gas and electrolyte analysers .....	004	800	187
Radiometer blood gas analyzer .....	004	326	187
Roche blood gas and electrolyte analysers .....	004	797	187
Roche Cobas Integra .....	004	144	187
Siemens blood gas and electrolyte analysers .....	004	796	187
Thermo Fisher Scientific electrolyte analysers .....	004	799	187
Thermo Fisher Scientific Konelab .....	004	109	187
ISE direct, others .....	004	009	187
<b>ISE indirect</b>			
Abbott Aeroset .....	010	700	188
Abbott Architect .....	010	544	188
AU instruments .....	010	036	188
Beckman Coulter Synchron .....	010	636	188
Beckman Coulter UniCel .....	010	623	188
Roche .....	010	097	188
Roche cobas .....	010	704	188
Roche Cobas Integra .....	010	144	188
Siemens Advia .....	010	553	188
Siemens Dimension .....	010	180	188
ISE indirect, others .....	010	008	188
<b>Photometry</b>			
Biolabo .....	001	258	147
Centronic .....	001	063	147
Futura Systems .....	001	723	180
Greiner Diagnostic .....	001	219	147
Hospitex .....	001	221	147
Human .....	001	112	147
Linear Chemicals .....	001	640	147
Spinreact .....	001	204	147
<b>Spotchem</b>			
Spotchem .....	019	002	187
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	187
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	187

**CHEMICAL PRINCIPLES**

- 187 Direct potentiometry
- 032 Emission flame photometry
- 180 Enzymatic method; photometry
- 188 Indirect potentiometry
- 147 Mg-uranylacetate method; photometry

**METHOD GROUPS**

- 025 Flame photometry
- 004 ISE direct
- 010 ISE indirect
- 001 Photometry
- 019 Spotchem
- 003 Vitros 250-950 and 5,1
- 015 Vitros DT60

# 0033 Thyreotropine mU/L

TSH

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Abbott</b>			
Abbott Architect .....	014	544	018
Abbott AxSym .....	014	014	021
Abbott AxSym 3rd Generation TSH .....	014	702	021
Abbott IMx .....	014	015	021
<b>Beckman Coulter Access</b>			
Beckman Coulter Access .....	077	018	018
<b>Orion Diagnostica</b>			
Orion Diagnostica SPECTRIA .....	063	153	085
<b>Roche Cobas Core</b>			
Roche Cobas Core .....	057	139	034
<b>Roche systems</b>			
Roche cobas .....	185	704	027
Roche Elecsys .....	185	060	027
Roche Modular E .....	185	560	027
<b>Siemens Advia Centaur &amp; ACS</b>			
Siemens ACS .....	033	011	018
Siemens Advia Centaur .....	033	539	018
<b>Siemens Immulite</b>			
Siemens Immulite .....	026	084	018
<b>Vitros ECi</b>			
Vitros ECi .....	055	003	018
<b>Perkin Elmer Delfia/Auto Delfia</b>			
Perkin Elmer Delfia / AutoDelfia .....	041	134	062
<b>Other methods</b>			
Adaltis .....	017	590	034
Adaltis EIAgen .....	017	701	034
bioMerieux Vidas .....	017	059	063
Clinotech .....	017	761	034
ClinPro .....	017	665	034
Diagnostic Systems Laboratories .....	017	661	034
Dialab .....	017	085	034
DiaSorin Liaison .....	017	624	018
DIMA .....	017	692	034
DRG Diagnostics .....	017	634	034
DRG Diagnostics ultrasensitive ELISA .....	017	789	034
DSL EIA .....	017	670	034
General Biologicals Corporation .....	017	785	034
Human .....	017	112	034
MG Diagnostic .....	017	783	034
Mobind .....	017	745	018
Pars Azmon .....	017	671	085
Radim S.p. A. reagents .....	017	654	034
Teco Diagnostics ELISA .....	017	729	034
Tosoh AIA .....	017	232	034

## **CHEMICAL PRINCIPLES**

- 027 Electrochemiluminescence immunoassay
- 063 Enzym-fluoroimmunoassay
- 034 Enzyme immunoassay
- 018 Luminoimmunoassay
- 021 Microparticle enzyme immunoassay
- 085 Radioimmunoassay
- 062 Time-resolved fluoroimmunoassay

## **METHOD GROUPS**

- 014 Abbott
- 077 Beckman Coulter Access
- 063 Orion Diagnostica
- 041 Perkin Elmer Delfia/Auto Delfia
- 057 Roche Cobas Core
- 185 Roche systems
- 033 Siemens Advia Centaur & ACS
- 026 Siemens Immulite
- 055 Vitros ECi
- 017 Other methods

# 0028 Thyroxine nmol/L

T4

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Abbott</b>			
Abbott Architect .....	014	544	018
Abbott AxSym .....	014	014	075
Abbott IMx .....	014	015	075
<b>Roche systems</b>			
Roche cobas .....	185	704	027
Roche Elecsys .....	185	060	027
Roche Modular E .....	185	560	027
<b>Siemens Advia Centaur &amp; ACS</b>			
Siemens ACS .....	033	011	018
Siemens Advia Centaur .....	033	539	018
<b>Siemens Immulite</b>			
Siemens Immulite .....	026	084	018
<b>Vitros ECI</b>			
Vitros ECI .....	055	003	018
<b>Perkin Elmer Delfia/Auto Delfia</b>			
Perkin Elmer Delfia / AutoDelfia .....	041	134	062
<b>Other methods</b>			
Adaltis .....	017	590	034
Beckman Coulter Access .....	017	018	018
bioMerieux Vidas .....	017	059	063
DiaSorin Liaison .....	017	624	018
DRG Diagnostics .....	017	634	034
DSL EIA .....	017	670	034
Human .....	017	112	034
Mobind .....	017	745	018
Pars Azmon .....	017	671	034
Pishtaz teb .....	017	690	085
Radim S.p. A. reagents .....	017	654	034
Roche Cobas Core .....	017	139	034
Teco Diagnostics ELISA .....	017	729	034
Tosoh AIA .....	017	232	034

## CHEMICAL PRINCIPLES

027	Electrochemiluminescence immunoassay
063	Enzym-fluoroimmunoassay
034	Enzyme immunoassay
075	Fluorescence polarization immunoassay
018	Luminoimmunoassay
085	Radioimmunoassay
062	Time-resolved fluoroimmunoassay

## METHOD GROUPS

014	Abbott
041	Perkin Elmer Delfia/Auto Delfia
185	Roche systems
033	Siemens Advia Centaur & ACS
026	Siemens Immulite
055	Vitros ECI
017	Other methods

# 0034 Thyroxine, free pmol/L

T4 free

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Abbott</b>			
Abbott Architect .....	014	544	018
Abbott AxSym .....	014	014	021
Abbott IMx .....	014	015	021
<b>Beckman Coulter Access</b>			
Beckman Coulter Access .....	077	018	018
<b>Roche Cobas Core</b> .....	057	139	034
<b>Roche systems</b>			
Roche cobas .....	185	704	027
Roche Elecsys .....	185	060	027
Roche Modular E .....	185	560	027
<b>Siemens Advia Centaur &amp; ACS</b>			
Siemens ACS .....	033	011	018
Siemens Advia Centaur .....	033	539	018
<b>Siemens Immulite</b> .....	026	084	018
<b>Vitros ECi</b> .....	055	003	018
<b>Perkin Elmer Delfia / AutoDelfia</b> .....	041	134	062
<b>Other methods</b>			
AccuBind .....	017	709	034
Adaltis .....	017	590	034
Adaltis EIAgen .....	017	701	034
bioMerieux Vidas .....	017	059	063
Clinotech .....	017	761	034
Diagnostic Systems Laboratories .....	017	661	034
DiaSorin Liaison .....	017	624	018
DIMA .....	017	692	034
DRG Diagnostics .....	017	634	034
DSL EIA .....	017	670	034
Human .....	017	112	034
Mobind .....	017	745	018
Teco Diagnostics ELISA .....	017	729	034
Tosoh AIA .....	017	232	034

## CHEMICAL PRINCIPLES

027	Electrochemiluminescence immunoassay
063	Enzym-fluoroimmunoassay
034	Enzyme immunoassay
018	Luminoimmunoassay
021	Microparticle enzyme immunoassay
062	Time-resolved fluoroimmunoassay

## METHOD GROUPS

014	Abbott
077	Beckman Coulter Access
041	Perkin Elmer Delfia/Auto Delfia
057	Roche Cobas Core
185	Roche systems
033	Siemens Advia Centaur & ACS
026	Siemens Immulite
055	Vitros ECi
017	Other methods



# 0024 Total iron binding capacity $\mu\text{mol/L}$

TIBC

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Calculated from transferrin</b>			
Calculated from transferrin .....	051	227	091
<b>Photometry</b>			
Abbott Aeroset, Architect .....	001	541	113
Aqua-Med .....	001	107	074
AU instruments .....	001	036	102
Beckman Coulter .....	001	030	113
bioMerieux .....	001	047	074
BT Products .....	001	760	102
Cormay .....	001	071	074
Darman Kave .....	001	689	074
Darman Kave .....	001	689	102
Diagnosticum .....	001	083	074
Human .....	001	112	113
Lachema .....	001	141	074
Linear Chemicals .....	001	640	074
Pars Azmon .....	001	671	102
Pars Azmon .....	001	671	074
Roche .....	001	097	102
Roche .....	001	097	074
Roche cobas .....	001	704	102
Roche Cobas Integra .....	001	144	102
Siemens Advia .....	001	553	074
Siemens Dimension .....	001	180	102
Thermo DMA .....	001	619	000
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	203

## CHEMICAL PRINCIPLES

- 091 Calculated from transferrin
- 102 Direct measurement of UIBC (LIBC); photometry
- 203 Iron saturation of transferrin, removal of excess Fe with alumina column; reflectance
- 113 Iron saturation of transferrin, removal of excess free Fe with aluminium oxid;  
photometry
- 074 Iron saturation of transferrin, removal of excess free Fe with  $\text{MgCO}_3$ ; photometry

## METHOD GROUPS

- 051 Calculated from transferrin
- 001 Photometry
- 003 Vitros 250-950 and 5,1

# 0025 Transferrin g/L

Transf

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Beckman Coulter nephelometry</b>			
Beckman Coulter .....	039	030	191
<b>Other nephelometry</b>			
Binding Site .....	056	705	191
Orion Diagnostica Turbox .....	056	150	191
<b>Siemens nephelometry</b>			
BN instruments .....	022	038	191
<b>Turbidimetry</b>			
Abbott Aeroset, Architect .....	005	541	190
ABX Pentra .....	005	617	190
AU instruments .....	005	036	190
Beckman Coulter .....	005	030	190
Biokit quantex Transferin .....	005	591	190
bioMerieux .....	005	047	190
Dako .....	005	131	190
DiAgam .....	005	794	190
Diasys .....	005	335	190
Linear Chemicals .....	005	640	190
Orion Diagnostica .....	005	140	190
Pars Azmon .....	005	671	190
Roche Cobas Integra Tina-quant .....	005	567	190
Roche cobas Tina-quant .....	005	744	190
Roche Tina-quant .....	005	058	190
Siemens Advia .....	005	553	190
Siemens Dimension .....	005	180	190
Siemens Turbiquant .....	005	035	190
Thermo Fisher Scientific Konelab .....	005	109	190
Vitros 5,1 FS .....	005	669	190

## CHEMICAL PRINCIPLES

- 191 Antigen-antibody (Ag-Ab) complex; nephelometry
- 190 Antigen-antibody (Ag-Ab) complex; turbidimetry

## METHOD GROUPS

- 039 Beckman Coulter nephelometry
- 056 Other nephelometry
- 022 Siemens nephelometry
- 005 Turbidimetry

# 0060 Transferrin receptor, soluble mg/L

TfR

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Orion Diagnostica</b>			
Orion Diagnostica IDeA sTfR-IT .....	063	166	190
<b>Roche systems</b>			
Roche Cobas Integra .....	185	144	190
Roche Cobas Integra Tina-quant .....	185	567	190
Roche cobas Tina-quant .....	185	744	196
Roche Tina-quant .....	185	058	190
<b>Siemens nephelometry</b>			
Siemens N Latex sTfR .....	022	515	191
<b>Thermo Fisher Scientific Konelab</b>			
Thermo Fisher Scientific Konelab sTfR .....	195	758	190

## CHEMICAL PRINCIPLES

- 191 Antigen-antibody (Ag-Ab) complex; nephelometry
- 190 Antigen-antibody (Ag-Ab) complex; turbidimetry
- 196 Antigen-antibody (Ag-Ab) latex complex; turbidimetry

## METHOD GROUPS

- 063 Orion Diagnostica
- 185 Roche systems
- 022 Siemens nephelometry
- 195 Thermo Fisher Scientific Konelab

# 0015 Triglycerides mmol/L

Trigly

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Photometry, enzymatic</b>			
Abbott Aeroset, Architect .....	002	541	006
ABX Pentra .....	002	617	006
Alfa Wasserman .....	002	710	006
Alpha Diagnostics .....	002	020	006
AMP Diagnostics .....	002	557	006
Analco .....	002	025	006
AU instruments .....	002	036	006
Audit Diagnostics .....	002	616	006
Beckman Coulter .....	002	030	006
Biocon Fluitest .....	002	046	006
Biolabo .....	002	258	006
BioMaxima .....	002	625	006
bioMerieux .....	002	047	006
BioSystems .....	002	065	006
BT Products .....	002	760	006
Centronic .....	002	063	006
Chema Diagnostica .....	002	643	006
Chemitech .....	002	589	006
Cormay .....	002	071	006
Diagnosticum .....	002	083	006
Diagon .....	002	615	006
Dialab .....	002	085	006
Diasys .....	002	335	006
Elitech .....	002	645	006
Futura Systems .....	002	723	006
Greiner Diagnostic .....	002	219	006
Hemolab .....	002	757	006
Hospitex .....	002	221	006
Human .....	002	112	006
I.S.E. SRL .....	002	741	006
IL Test .....	002	302	006
Invicon .....	002	737	006
Lachema .....	002	141	006
Linear Chemicals .....	002	640	006
Merck Ecoline .....	002	090	006
Pars Azmon .....	002	671	006
Pointe Scientific .....	002	033	006
Randox .....	002	092	006
Randox RX Daytona .....	002	629	006
Roche .....	002	097	006
Roche cobas .....	002	704	006
Roche Cobas Integra .....	002	144	006
SGM .....	002	632	006
Siemens Advia .....	002	553	006
Siemens Dimension .....	002	180	120
Siemens Express .....	002	080	006
Spinreact .....	002	204	006
Thermo Fisher Scientific Konelab, GPO, Trinder .....	002	109	006
Thermo Trace .....	002	648	006
<b>Reflotron</b>			
Reflotron .....	011	056	043

	Method group	I D no.	Chemical principle
<b>Spotchem</b>			
Spotchem .....	019	002	108
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	043
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	043

#### CHEMICAL PRINCIPLES

- 108 Ascorbate oxidase, lipase, G-3-P-oxidase, H<sub>2</sub>O<sub>2</sub>, peroxidase / chromogen; reflectance
- 120 Lipase, GDH / NADH; photometry
- 006 Lipase, GK/G-3-P-oxidase, H<sub>2</sub>O<sub>2</sub>, peroxidase / chromogen; photometry
- 043 Lipase, GK/G-3-P-oxidase, H<sub>2</sub>O<sub>2</sub>, peroxidase / chromogen; reflectance

#### METHOD GROUPS

- 002 Photometry, enzymatic
- 011 Reflotron
- 019 Spotchem
- 003 Vitros 250-950 and 5,1
- 015 Vitros DT60

# 0026 Triiodothyronine nmol/L

T3

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Abbott</b>			
Abbott Architect .....	014	544	018
Abbott AxSym .....	014	014	021
Abbott IMx .....	014	015	021
<b>Roche systems</b>			
Roche cobas .....	185	704	027
Roche Elecsys .....	185	060	027
Roche Modular E .....	185	560	027
<b>Siemens Advia Centaur &amp; ACS</b>			
Siemens ACS .....	033	011	018
Siemens Advia Centaur .....	033	539	018
<b>Siemens Immulite</b> .....	026	084	018
<b>Vitros ECI</b> .....	055	003	018
<b>Perkin Elmer Delfia/Auto Delfia</b> .....	041	134	062
<b>Other methods</b>			
Adaltis .....	017	590	034
Beckman Coulter Access .....	017	018	018
bioMerieux Vidas .....	017	059	063
Clinotech .....	017	761	034
DiaSorin Liaison .....	017	624	018
DIMA .....	017	692	034
DRG Diagnostics .....	017	634	034
DSL EIA .....	017	670	034
Pars Azmon .....	017	671	034
Pars Azmon .....	017	671	085
Pishtaz teb .....	017	690	085
Radim S.p. A. reagents .....	017	654	034
Roche Cobas Core .....	017	139	034
Teco Diagnostics ELISA .....	017	729	034
Tosoh AIA .....	017	232	034

## CHEMICAL PRINCIPLES

027	Electrochemiluminescence immunoassay
063	Enzym-fluoroimmunoassay
034	Enzyme immunoassay
018	Luminoimmunoassay
021	Microparticle enzyme immunoassay
085	Radioimmunoassay
062	Time-resolved fluoroimmunoassay

## METHOD GROUPS

014	Abbott
041	Perkin Elmer Delfia/Auto Delfia
185	Roche systems
033	Siemens Advia Centaur & ACS
026	Siemens Immulite
055	Vitros ECI
017	Other methods

# 0006 Urea mmol/L

Urea

## METHODS BY METHOD GROUPS

	Method	I D	Chemical
	group	no.	principle
<b>Photometry, enzymatic</b>			
Abbott Aeroset, Architect .....	002	541	012
ABX Diagnostics .....	002	238	012
ABX Pentra .....	002	617	012
Alfa Wasserman .....	002	710	012
Alpha Diagnostics .....	002	020	012
AMP Diagnostics .....	002	557	012
Analco .....	002	025	012
AU instruments .....	002	036	012
Audit Diagnostics .....	002	616	012
Beckman Coulter, UV-photometry .....	002	030	012
Beckman Coulter, conductometry .....	002	030	157
Biocon Biosub .....	002	041	012
Biocon Fluitest .....	002	046	103
Biolabo .....	002	258	012
BioMaxima .....	002	625	012
bioMerieux .....	002	047	012
BioSystems .....	002	065	103
BioSystems, UV .....	002	065	012
Centronic .....	002	063	012
Chema Diagnostica .....	002	643	012
Chemlex LabKit .....	002	666	012
Chemitech .....	002	589	012
Cormay .....	002	071	012
Diagnosticum .....	002	083	012
Diagon .....	002	615	012
Dialab .....	002	085	012
Diasys .....	002	335	012
Elitech .....	002	645	012
Futura Systems .....	002	723	012
Gesan .....	002	732	012
Globe Diagnostics .....	002	742	012
Greiner Diagnostic .....	002	219	012
Hospitex .....	002	221	012
Human, VIS-photometry .....	002	112	103
Human, UV-photometry .....	002	112	012
I.S.E. SRL .....	002	741	012
IL Test .....	002	302	012
Invicon .....	002	737	012
Lachema .....	002	141	012
Linear Chemicals .....	002	640	103
Linear Chemicals .....	002	640	012
MG Diagnostic .....	002	783	012
Pars Azmon .....	002	671	012
Pointe Scientific .....	002	033	012
Randox .....	002	092	012
Randox RX Daytona .....	002	629	012
Roche .....	002	097	012
Roche cobas .....	002	704	012
Roche Cobas Integra .....	002	144	012
SGM .....	002	632	012
Siemens Advia .....	002	553	012
Siemens Dimension .....	002	180	012
Siemens Express .....	002	080	012

	Method group	I D no.	Chemical principle
Spinreact .....	002	204	103
Spinreact .....	002	204	012
Thermo Fisher Scientific Konelab .....	002	109	012
Thermo Trace .....	002	648	012
Vital Diagnostics .....	002	211	012
<b>Reflotron</b>			
Reflotron .....	011	056	064
<b>Spotchem</b>			
Spotchem .....	019	002	167
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	064
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	064

#### CHEMICAL PRINCIPLES

167	Phtalaldehyde / chromogen; reflectance
064	Urease / ammonia indicator; reflectance
157	Urease / ions; conductometry
103	Urease / phenolate hypochlorite (Berthelot's method); photometry
012	Urease, glutamate dehydrogenase / NADH; photometry

#### METHOD GROUPS

002	Photometry, enzymatic
011	Reflotron
019	Spotchem
003	Vitros 250-950 and 5,1
015	Vitros DT60



# 0013 Uric acid $\mu\text{mol/L}$

Uric acid

## METHODS BY METHOD GROUPS

	Method	I D	Chemical
	group	no.	principle
<b>Photometry, enzymatic</b>			
Abbott Aeroset, Architect .....	002	541	007
ABX Diagnostics .....	002	238	007
ABX Pentra .....	002	617	007
ABX Pentra .....	002	617	116
Alfa Wasserman .....	002	710	007
Alpha Diagnostics .....	002	020	007
AMP Diagnostics .....	002	557	007
Analco .....	002	025	007
AU instruments .....	002	036	007
Audit Diagnostics .....	002	616	007
Beckman Coulter .....	002	030	007
Biocon Biosub .....	002	041	007
Biocon Fluitest .....	002	046	007
Biocon Fluitest .....	002	046	116
Biolabo .....	002	258	116
Biolabo .....	002	258	007
BioMaxima .....	002	625	116
bioMerieux .....	002	047	007
BioSystems .....	002	065	007
BioSystems .....	002	065	116
BT Products .....	002	760	040
Centronic .....	002	063	007
Chema Diagnostica .....	002	643	007
Chemlex LabKit .....	002	666	007
Chemitech .....	002	589	116
Cormay .....	002	071	007
Cormay .....	002	071	116
Diagnosticum .....	002	083	007
Diagnosticum .....	002	083	116
Diagon .....	002	615	007
Diagon .....	002	615	116
Dialab .....	002	085	007
Diasys .....	002	335	007
Diasys .....	002	335	116
Elitech .....	002	645	116
Elitech .....	002	645	007
Futura Systems .....	002	723	007
Greiner Diagnostic .....	002	219	007
Greiner Diagnostic .....	002	219	116
Hemolab .....	002	757	007
Hospitex .....	002	221	007
Human .....	002	112	007
I.S.E. SRL .....	002	741	007
IL Test .....	002	302	007
Labor+Technik Eberhard Lehmann .....	002	746	116
Lachema .....	002	141	007
Linear Chemicals .....	002	640	116
Merck .....	002	128	007
Pars Azmon .....	002	671	116
Pars Azmon .....	002	671	007
Pointe Scientific .....	002	033	007
Randox .....	002	092	007
Randox RX Daytona .....	002	629	007

	Method group	I D no.	Chemical principle
Roche .....	002	097	007
Roche cobas .....	002	704	007
Roche Cobas Integra .....	002	144	007
SGM .....	002	632	007
Siemens Advia .....	002	553	007
Siemens Dimension .....	002	180	116
Siemens Express .....	002	080	007
Spinreact .....	002	204	007
Thermo Fisher Scientific Konelab, AOX .....	002	109	007
Thermo Fisher Scientific Konelab, TBHBA .....	002	770	007
Thermo Trace .....	002	648	116
<b>Reflotron</b>			
Reflotron .....	011	056	040
<b>Spotchem</b>			
Spotchem .....	019	002	040
<b>Vitros 250-950 and 5,1</b>			
Vitros 250-950 and 5,1 .....	003	005	040
<b>Vitros DT60</b>			
Vitros DT 60 .....	015	004	040

#### CHEMICAL PRINCIPLES

- 116 Uricase / allantoin; photometry
- 007 Uricase, H<sub>2</sub>O<sub>2</sub>, peroxidase / chromogen; photometry
- 040 Uricase, H<sub>2</sub>O<sub>2</sub>, peroxidase / chromogen; reflectance

#### METHOD GROUPS

- 002 Photometry, enzymatic
- 011 Reflotron
- 019 Spotchem
- 003 Vitros 250-950 and 5,1
- 015 Vitros DT60

# 0041 Zinc $\mu\text{mol/L}$

Zn

## METHODS BY METHOD GROUPS

	Method group	I D no.	Chemical principle
<b>Atomic absorption spectrophotometry</b>			
Atomic absorption spectrophotometry .....	038	001	066
<b>Atomic emission spectrophotometry</b>			
ICP-ES .....	191	306	172
<b>Photometry</b>			
Chema Diagnostica .....	001	643	249
Radox .....	001	092	128
Sentinel .....	001	565	128
Wako .....	001	203	128
<b>Mass spectrometry</b>			
ICP-MS .....	347	795	252

## CHEMICAL PRINCIPLES

128	5-Bromo-PAPS / chromogen; photometry
066	Atomic absorption spectrophotometry
172	Emission spectrometry
252	Mass spectrometry
249	Nitro-PAPS; photometry

## METHOD GROUPS

038	Atomic absorption spectrophotometry
191	Atomic emission spectrophotometry
001	Photometry
347	Mass spectrometry

# Manufacturers

001	ABBOTT	175	DEKS	413	MINDRAY
331	ADALTIS	191	DIAGNOSTICUM	145	NIHON KOHDEN
078	ADVANCED INSTRUMENTS	324	DIAGON	363	NOBIS
422	AGILENT TECHNOLOGIES	167	DIALAB	020	NOVA BIOMEDICAL
399	ALFA WASSERMANN	361	DIASIS DIAGNOSTIK SISTEMIER (DDS)		OLYMPUS (see Beckman Coulter)
153	ALPHA DIAGNOSTIC	335	DIASORIN	055	ORION DIAGNOSTICA
019	AMERICAN OPTICAL	158	DIASYS	072	ORTHO-CLINICAL DIAGNOSTICS
359	AMERSHAM BIOSCIENCES	410	DIATRON	387	PARS AZMON
193	AMP Diagnostics	045	DR LANGE	021	PERKIN ELMER
327	AMS	343	DRG DIAGNOSTIC	131	PHADIA
159	ANALCO	391	ELECTA Lab	157	POINTE SCIENTIFIC
006	ARKRAY (KYOTO DAICHI)	386	ELICO	149	POLL
325	AUDIT DIAGNOSTICS	319	ELITECH	177	R&D
	AVL (see Roche)	010	EPPENDORF	024	RADIOMETER
377	AWARENESS TECHNOLOGY U.S.A	378	EUROLAB	117	RANDOX
396	AXIS SHIELD	409	EUROLYSER	124	REAGENA
181	BCR IRMM	086	FISKE ASSOCIATES	341	ROBERT RIELE
051	BECKMAN COULTER	404	FUTURA SYSTEMS	026	ROCHE
397	BINDING SITE	435	GARNI MEDICAL	062	ROEBLING
373	BIO-MEDICALS	417	GDV	104	RUBY
346	BIOCHEMICAL SYSTEMS	160	GENZYME	061	SCIENTIFIC INSTRUMENTS (LEICA)
112	BIOCLIN	424	GESAN	368	SEAC RADIM GROUP
161	BIOCON	084	GONOTEC	303	SENTINEL CH.
115	BIOLABO	081	GREINER DIAGNOSTICS	028	SHIMADZU
336	BIOMAXIMA	048	HEMOCUE	057	SIEMENS
302	BIOMED	082	HORIBA ABX DIAGNOSTICS	421	SINNOWA
342	BIOMERICA	170	HOSPITEX	199	SPINREACT
095	BIOMERIEUX	102	HUMAN	172	STRECK LAB.
337	BIOMETRIA	195	HYCEL	154	SWELAB
188	BIOSYSTEMS	163	HYDREX	030	SYSMEX
334	BIOTECNICA	420	I.S.E. S.r.l.	384	TECAN
320	BIOTEK	171	IMMUNOTECH	017	THERMO FISCHER SCIENTIFIC
185	BIOTEST MEDIZINTECHNIK GMBH	150	IMUNA	357	TOKYO BOEKI
139	BIOTROL	381	INNOMED	166	TRIDENT MED S.C.
356	BPC BIOSED SRL	014	INSTRUMENTATION LABORATORY (IL)	434	UNICAM
094	BYK-SANGTEC DIAGNOSTICA	349	INVICON	200	VITAL SCIENTIFIC
425	CAMSPEC	096	IONETICS	032	VITALAB
376	CARE DIAGNOSTICA	407	IZOTOP	031	VITATRON
179	CENTRONIC	406	JENWAY	118	WAKO
367	CGA STRUMENT SCIENTIFICI	056	KNAUER	080	YSI INC.
369	CHEMITECH	432	KPSONTECH	033	ZEISS
148	CORMAY	121	LACHEMA	393	ZEIST CHEMI
347	CRONY INSTRUMENTS	018	LIC		
332	CYPRESS DIAGNOSTICS	344	LINEAR CHEMICALS		
122	DAKO	431	LIOFILCHEM DIAGNOSTICI		
		383	MARCEL		
		322	MAXMAT		
		107	MEDICA		
		091	MEDINOR		
		109	MERCK		
		419	METROLAB		

# Instruments

- 001 **ABBOTT**  
14.... Aeroset  
12.... Alcyon  
40.... Alcyon 300i  
13.... Architect  
15.... Architect c8000  
17.... Architect ci8200  
42.... Architect i2000  
43.... Architect i2000SR  
09.... AxSYM  
29.... Cell-Dyn 1200  
30.... Cell-Dyn 1300  
31.... Cell-Dyn 1400  
32.... Cell-Dyn 1600  
33.... Cell-Dyn 1700  
39.... Cell-Dyn 1800  
34.... Cell-Dyn 3000  
35.... Cell-Dyn 3200  
36.... Cell-Dyn 3500  
37.... Cell-Dyn 3700  
38.... Cell-Dyn 4000  
25.... Cell-Dyn 610  
44.... Cell-Dyn Ruby  
41.... Cell-Dyn Sapphire  
16.... i-STAT  
07.... IMx  
10.... Spectrum  
08.... TDxFLx  
11.... VP  
99.... Other, please specify
- 331 **ADALTIS**  
01.... Eclectica  
99.... Other, please specify
- 078 **ADVANCED INSTRUMENTS**  
02.... Cryomatic 3C2  
03.... Digimatic  
01.... Micro Osmometer  
(3MO, 30 plus, 3300)  
05.... Osmometer 3900  
04.... Osmometer 3D3  
99.... Other, please specify
- 399 **ALFA WASSERMANN**  
02.... ACE Alera  
01.... ACE system  
99.... Other, please specify
- 153 **ALPHA DIAGNOSTIC**  
01.... Airone 200  
02.... Jolly-100 CRONY  
99.... Other, please specify
- 019 **AMERICAN OPTICAL**  
01.... Bilirubinometer  
99.... Other, please specify
- 193 **AMP Diagnostics**  
03.... PLATOS R 496  
02.... Tecan Sunrise  
99.... Other, please specify
- 327 **AMS**  
04.... AIRONE 200RA  
01.... AMS Liasys  
03.... AUTOLAB  
06.... AUTOLAB 18  
07.... Autolab PM4000  
05.... Fully  
02.... SABA 18  
99.... Other, please specify
- 006 **ARKRAY (KYOTO DAIICHI)**  
14.... LactatePro  
05.... OM 6020  
11.... OM 6040  
10.... Spotchem EL SE-1520  
08.... Spotchem SE-1510  
06.... Spotchem SP-4410  
09.... Spotchem SP-4420  
12.... Spotchem SP-4430  
99.... Other, please specify
- 087 AVL (see Roche)
- 377 **AWARENESS TECHNOLOGY U.S.A**  
05.... Chemwell 2900  
03.... Chemwell 2910  
02.... Stat Fax 1904  
07.... Stat Fax 2100  
09.... Stat Fax 3000  
04.... Stat Fax 303  
06.... Stat Fax 303 PLUS  
08.... Stat Fax 3200  
01.... Stat Fax1904 Plus  
99.... Other, please specify
- 396 **AXIS SHIELD**  
01.... Afinion AS100  
99.... Other, please specify
- 051 **BECKMAN COULTER**  
24.... Access  
26.... AcT 2 Diff  
28.... AcT 5 Diff
- 14.... Array Protein System  
09.... AU 2700  
07.... AU 400  
05.... AU 560  
06.... AU 600  
08.... AU 640  
11.... AU 680  
30.... AU300i  
87.... Coulter AcT 18 Diff  
85.... Coulter AcT 8  
66.... Coulter CBC5  
89.... Coulter GEN-S  
90.... Coulter HmX  
93.... Coulter LH500  
65.... Coulter M 2  
54.... Coulter M 530  
80.... Coulter MaxM  
83.... Coulter MD 18  
81.... Coulter MD 8  
91.... Coulter MD II  
84.... Coulter Micro Diff  
88.... Coulter Onyx  
82.... Coulter STKS  
70.... Coulter T 540  
74.... Coulter T 850  
71.... Coulter T 890  
04.... Glucose Analyzer  
23.... Image  
17.... Synchron CX 4  
19.... Synchron CX 5  
18.... Synchron CX 7  
25.... Synchron CX 9  
15.... Synchron EL-ISE  
27.... Synchron LX20  
21.... System 700  
94.... UniCel Dx C 600  
95.... UniCel Dx I 600  
29.... Unicel Dx I 800  
99.... Other, please specify
- 397 **BINDING SITE**  
01.... Minineph  
99.... Other, please specify
- 373 **BIO-MEDICALS**  
01.... SmartLab ERBA  
99.... Other, please specify
- 346 **BIOCHEMICAL SYSTEMS**  
03.... FULLY  
04.... Fully RM 4000  
05.... Fully Smart  
01.... MAP-LAB PLUS  
02.... Screen Master 3000  
99.... Other, please specify

- 342 **BIOMERICA**  
01.... Genesis A 100  
99.... Other, please specify
- 095 **BIOMERIEUX**  
04.... Alize  
03.... Clinilab  
08.... Mini Vidas  
09.... Reader 230S  
02.... UV-VIS 2  
01.... Vidas  
07.... VIS 2000  
06.... Visual  
99.... Other, please specify
- 337 **BIOMETRIA**  
01.... Genesis A 100  
99.... Other, please specify
- 188 **BIOSYSTEMS**  
06.... A15  
05.... A25  
04.... BTS 302  
03.... BTS 310  
02.... BTS-330  
01.... BTS-370  
99.... Other, please specify
- 334 **BIOTECNICA**  
03.... BT 224  
01.... BT 3000  
02.... BT 3000 T.A.R.G.A  
Plus  
99.... Other, please specify
- 320 **BIOTEK**  
01.... ELX-800  
99.... Other, please specify
- 185 **BIOTEST MEDIZIN-  
TECHNIK GMBH**  
01.... Biotest Hemoglobin  
Tester  
99.... Other, please specify
- 356 **BPC BIOSED SRL**  
01.... KUADRO  
99.... Other, please specify
- 094 **BYK-SANGTEC  
DIAGNOSTICA**  
01.... LIA-mat 300  
02.... Liaison  
99.... Other, please specify
- 425 **CAMSPEC**  
01.... M 107  
99.... Other, please specify
- 376 **CARE DIAGNOSTICA**  
01.... Eco Twenty  
99.... Other, please specify
- 179 **CENTRONIC**  
01.... Eurolyser  
99.... Other, please specify
- 007 **CHRISTIAN NISSEN**  
01.... Hb-151  
99.... Other, please specify
- 148 **CORMAY**  
08.... Accent 300  
10.... Accent-200  
03.... Liasys  
04.... MULTI  
02.... MuRH  
01.... Plus  
09.... Prestige 24i  
99.... Other, please specify
- 347 **CRONY INSTRUMENTS**  
01.... Airone 200 RA  
03.... Jolly 103  
02.... Saturno 150  
04.... Saturno 300  
99.... Other, please specify
- 324 **DIAGON**  
01.... D-CHEM 300  
99.... Other, please specify
- 167 **DIALAB**  
03.... Autolyser  
02.... Diatron 410  
99.... Other, please specify
- 335 **DIASORIN**  
01.... Liaison  
99.... Other, please specify
- 158 **DIASYS**  
03.... Star Dust  
01.... Star Dust MC15  
02.... Super G  
99.... Other, please specify
- 045 **DR LANGE**  
10.... LP 20  
12.... LP 700  
11.... LP-400  
99.... Other, please specify
- 391 **ELECTA Lab**  
02.... Minilab  
01.... Turbi-Quick  
99.... Other, please specify
- 010 **EPENDORF**  
14.... Chloride meter 6610  
10.... EBIO 6666  
21.... EBIO Compact  
19.... EBIO Plus  
17.... ECOM 6122  
09.... EFOX 5053  
08.... ESAT 6660  
05.... FCM 6341  
12.... PCP 6121  
99.... Other, please specify
- 378 **EUROLAB**  
01.... Eurolyser  
99.... Other, please specify
- 086 **FISKE ASSOCIATES**  
04.... 210 Micro  
Osmometer  
03 2400 Multi Sample  
Osmometer  
01.... One-Ten Osmometer  
02.... OStm Osmometer  
99.... Other, please specify
- 084 **GONOTEC**  
01.... Osmomat 030  
02.... Osmomat auto  
99.... Other, please specify
- 048 **HEMOCUE**  
05.... Hemocue 201+  
03.... Hemocue Gluc meter  
04.... Hemocue Gluc meter  
201  
02.... Hemocue Hb meter  
99.... Other, please specify
- 013 **HITACHI**  
18.... Hitachi 180-80  
08.... Hitachi 4020  
99.... Other, please specify
- 082 **HORIBA ABX  
DIAGNOSTICS**  
03.... Argos  
14.... Cobas Bio  
10.... Fara  
07.... Micros (60)  
08.... Micros CRP  
17.... Micros CRP 200  
11.... Mira  
13.... Mira Plus  
12.... Mira S  
15.... Pentra 400  
16.... Pentra DX 120  
99.... Other, please specify

- 170 **HOSPITEX**  
 11.... EOS 880c  
 08.... EOS Bravo  
 06.... EOS Bravo Forte  
 07.... EOS Bravo Plus  
 10.... Eos Bravo W  
 01.... Screen Master  
 03.... Screen Master Plus  
 05.... Screen Master Point  
 02.... Screen Master Seac  
 09.... Screen Point  
 04.... Stat Fax SEAC  
 99.... Other, please specify
- 102 **HUMAN**  
 06.... 900S plus  
 15.... Elisys Uno  
 02.... Humalyzer 2000  
 10.... Humalyzer 3000  
 01.... Humalyzer 815  
 11.... Humalyzer 900 F Plus  
 05.... Humalyzer Junior  
 03.... Human 850  
 08.... Humareader Single  
 09.... HumaStar 180  
 14.... HumaStar 300  
 16.... HumaStar 600  
 13.... HumaStar 80  
 12.... Star 80  
 99.... Other, please specify
- 195 **HYCEL**  
 04.... Hycel 104  
 02.... Lisa 200  
 03.... Lisa 300 Plus  
 05.... Lisa 500 Plus  
 99.... Other, please specify
- 420 **I.S.E. S.r.l.**  
 02.... Echo  
 04.... Echo Plus  
 01.... Miura  
 03.... Miura 200  
 99.... Other, please specify
- 381 **INNOMED**  
 01.... VIS 2000  
 99.... Other, please specify
- 014 **INSTRUMENTATION  
 LABORATORY (IL)**  
 24.... 1640  
 08.... 943  
 32.... GEM Premier 3000  
 33.... ILab 300  
 34.... ILab 300 Plus  
 30.... ILab 600  
 35.... ILab 650  
 22.... ILyte  
 27.... Synthesis 25  
 99.... Other, please specify
- 406 **JENWAY**  
 01.... 6100  
 03.... 6105  
 02.... 6400  
 04.... PFP Clinical  
 99.... Other, please specify
- 056 **KNAUER**  
 01.... Osmometer  
 99.... Other, please specify
- 344 **LINEAR CHEMICALS**  
 01.... Croma Line AR PLus  
 02.... GEA Microplate  
 Reader  
 99.... Other, please specify
- 383 **MARCEL**  
 01.... EURO  
 99.... Other, please specify
- 107 **MEDICA**  
 01.... EasyLyte  
 99.... Other, please specify
- 091 **MEDINOR**  
 01.... Nycocard READER  
 99.... Other, please specify
- 109 **MERCK**  
 02.... Magia 7000  
 01.... Mega  
 03.... Vitatron  
 99.... Other, please specify
- 419 **METROLAB**  
 01.... 2300 Plus  
 99.... Other, please specify
- 413 **MINDRAY**  
 05.... BC-2800  
 02.... BC-2800 Plus  
 03.... BC-3000 Plus  
 04.... BS 200  
 01.... BS 300  
 99.... Other, please specify
- 145 **NIHON KOHDEN**  
 04.... Celltac alfa  
 08.... Celltac MEK 7222 K  
 09.... MEK 4100  
 05.... MEK 5105 K  
 02.... MEK 6108 K  
 03.... MEK 6318 K  
 01.... MEK 8118 K  
 07.... MEK 8222K Celltac F  
 99.... Other, please specify
- 363 **NOBIS**  
 01.... Nobilyzer PM 310  
 99.... Other, please specify
- 020 **NOVA BIOMEDICAL**  
 16.... Nova 4  
 22.... Nova Phox Plus  
 21.... Stat Profile 9  
 99.... Other, please specify
- 055 **ORION DIAGNOSTICA**  
 02.... QuikRead  
 01.... Turbox  
 03.... Turbox Plus  
 99.... Other, please specify
- 072 **ORTHO-CLINICAL  
 DIAGNOSTICS**  
 04.... Vitros 250  
 10.... Vitros 350  
 09.... Vitros 5,1 FS  
 03.... Vitros 500  
 02.... Vitros 700  
 08.... Vitros 750 XRC  
 06.... Vitros 950  
 01.... Vitros DT 60  
 07.... Vitros ECi  
 99.... Other, please specify
- 021 **PERKIN ELMER**  
 28.... 107  
 07.... 1100B  
 35.... 2380  
 33.... 3030  
 36.... 3100  
 23.... 3300  
 42.... AAnalyst 100  
 41.... AAnalyst 300  
 40.... AAnalyst 800  
 19.... AutoDELFI 1235  
 17.... Delfia 1232/1234  
 43.... ELAN DRC-e  
 16.... Wizard 1470  
 99.... Other, please specify
- 131 **PHADIA**  
 01.... ImmunoCAP 100  
 06.... ImmunoCAP 1000  
 07.... ImmunoCAP 250  
 04.... Pharmacia CAP  
 System FEIA  
 05.... Pharmacia CAP  
 System RIA  
 99.... Other, please specify
- 157 **POINTE SCIENTIFIC**  
 01.... 180  
 02.... 2000  
 99.... Other, please specify
- 149 **POLL**  
 01.... Epoll-2  
 02.... Epoll-20  
 99.... Other, please specify

- 024 **RADIOMETER**  
10.... ABL 505  
14.... ABL 610  
13.... ABL 620  
15.... ABL 625  
23.... ABL 700  
25.... ABL 705  
26.... ABL 715  
18.... ABL 725  
22.... ABL 735  
31.... ABL 800  
29.... ABL 800 Flex  
30.... ABL 825  
28.... ABL 825 Flex  
32.... ABL 835 Flex  
17.... EML 105  
11.... EML-100  
05.... FLM3  
09.... ICA1  
02.... ICA2  
99.... Other, please specify
- 117 **RANDOX**  
01.... RX Daytona  
99.... Other, please specify
- 341 **ROBERT RIELE**  
01.... PM 750  
03.... PM 5010  
04.... PM 5050  
99.... Other, please specify
- 026 **ROCHE**  
14.... Autolab  
54.... AVL 9120  
55.... AVL 9130  
56.... AVL 9140  
51.... AVL 9180  
52.... AVL 9181  
61.... AVL 982  
53.... AVL 983-S  
60.... AVL 984-S  
62.... AVL 985-S  
57.... AVL 988-3  
58.... AVL 988-4  
12.... BM 5010  
39.... cobas c111  
44.... cobas c311  
43.... cobas c501  
02.... Cobas Core  
41.... cobas e411  
42.... cobas e601  
45.... cobas h232  
03.... Elecsys  
36.... Elecsys 2010  
17.... Hitachi 704  
18.... Hitachi 705  
20.... Hitachi 717  
25.... Hitachi 902  
21.... Hitachi 911  
24.... Hitachi 912
- 23.... Hitachi 917  
33.... Integra 400  
40.... Integra 400 Plus  
30.... Integra 700  
31.... Integra 800  
13.... Keysys  
26.... Modular E  
34.... Modular E 170  
16.... Modular P/D  
63.... Omni  
32.... Omni S / cobas b221  
37.... Photometer 4010  
06.... Reflotron (II)  
05.... Reflotron (I)  
07.... Reflotron IV  
27.... Reflotron Plus  
99.... Other, please specify
- 062 **ROEBLING**  
01.... Osmometer  
Automatic  
99.... Other, please specify
- 061 **SCIENTIFIC INSTRUMENTS (LEICA)**  
01.... Leica Unistat  
Bilirubinometer  
99.... Other, please specify
- 368 **SEAC RADIM GROUP**  
02.... Screen Master  
01.... Seac Slim  
99.... Other, please specify
- 352 **SHERWOOD**  
01.... M420  
99.... Other, please specify
- 028 **SHIMADZU**  
16.... AA 6501  
06.... AA-670  
15.... BioSpec 1601  
01.... CL-720  
03.... CL-750  
09.... CL-770  
13.... UV-1601  
14.... UV-160A  
17.... UV1700 Pharma-Spec  
99.... Other, please specify
- 057 **SIEMENS**  
20.... 550 Express  
21.... 560 Express  
15.... Advia 120  
55.... Advia 1200  
50.... Advia 1650  
62.... Advia 1800  
63.... Advia 2120  
54.... Advia 2400  
14.... Advia 60
- 16.... Advia Centaur  
64.... Advia Centaur XP  
59.... Advia CentaurCP  
65.... BN II  
66.... BN ProSpec  
70.... Dimension XPand  
67.... Dimension AR  
71.... Dimension ARx  
76.... Dimension ES  
68.... Dimension RxL  
82.... Dimension XL  
41.... FL 480  
72.... Immulite  
73.... Immulite 1000  
74.... Immulite 2000  
75.... Immulite 2500  
26.... ISE 288  
28.... ISE 614  
29.... ISE 634  
30.... ISE 644  
31.... ISE 654  
53.... Rapid Point 405  
56.... Rapidchem 744  
60.... Rapidchem 754  
58.... RapidLab 1265  
27.... RapidLab 348  
22.... RapidLab 850  
23.... RapidLab 855  
24.... RapidLab 860  
25.... RapidLab 865  
99.... Other, please specify
- 421 **SINNOWA**  
05.... B200  
01.... B300  
04.... BS-3000P  
03.... Z-003 elektrode  
02.... Z-320  
99.... Other, please specify
- 030 **SYSMEX**  
01.... Sysmex CC 130  
03.... Sysmex CC 170  
10.... Sysmex F 500  
18.... Sysmex F 520  
12.... Sysmex F 800  
14.... Sysmex K 1000  
19.... Sysmex K 4500  
21.... Sysmex K 800  
23.... Sysmex KX 21  
28.... Sysmex poch-100i  
20.... Sysmex SF 3000  
25.... Sysmex XE 2100  
29.... Sysmex XS 1000i  
26.... Sysmex XT 1800i  
27.... Sysmex XT 2000i  
99.... Other, please specify



- 154 **SWELAB**  
03.... AC 970  
02.... AC-900  
99.... Other, please specify
- 384 **TECAN**  
01.... Sunrise  
99.... Other, please specify
- 017 **THERMO FISCHER SCIENTIFIC**  
13.... Delta  
18.... Konelab 20i  
19.... Konelab 20XT  
20.... Konelab 20XTi  
17.... Konelab 30i  
16.... Konelab 60i  
21.... Konelab Prime 60  
04.... Microlyte 3+2  
11.... Microlyte 6  
14.... Optima  
15.... PRO  
10.... Specific Supra  
99.... Other, please specify
- 357 **TOKYO BOEKI**  
02.... Biolis 24i  
01.... Prestige 24i  
99.... Other, please specify
- 093 **TOSOH**  
02.... AIA-21  
03.... AIA-360  
99.... Other, please specify
- 166 **TRIDENT MED S.C.**  
01.... Osmometer 800 CI  
99.... Other, please specify
- 200 **VITAL SCIENTIFIC**  
02.... Microlab 300  
03.... Selectra XL  
99.... Other, please specify
- 032 **VITALAB**  
01.... 21  
02.... 31  
05.... Eclipse  
09.... Flexor E  
13.... Flexor Junior  
14.... Flexor XL  
10.... Microlab 200  
11.... Microlab 300  
07.... Selectra  
15.... Selectra E  
12.... Selectra junior  
16.... Selectra XL  
99.... Other, please specify
- 031 **VITATRON**  
07.... IFP  
08.... ISP  
99.... Other, please specify
- 080 **YSI INC.**  
03.... YSI 1500 Lactate Analyzer (portable)  
02.... YSI 2300GL Lact/ Gluc Analyzer  
99.... Other, please specify
- 033 **ZEISS**  
09.... AAS 3  
13.... Abbe Refractometer  
12.... Spekol  
05.... Spekol 11  
10.... Spekol 211  
11.... Spekol EK 1  
99.... Other, please specify

# Calibrators

- 001 ABBOTT**  
39 ..... 3rd Generation TSH Standard calibrators  
01 ..... Abbott CRP  
02 ..... Abbott Master cal / std cal  
29 ..... Aeroset c 8000 Cal set  
32 ..... Architect Fe calibrator  
43 ..... Architect Ferritin Calibrators  
37 ..... Architect Free T4 Calibrators  
41 ..... Architect T3 Calibrators  
42 ..... Architect T4 Calibrators  
36 ..... Architect TSH Calibrators  
26 ..... AxSYM Cortisol Standard Calibrators  
18 ..... Axsym Digitoxin Calibrator  
03 ..... Bilirubin calibrator  
38 ..... Bilirubin Calibrator (Architect)  
30 ..... C-Reactive Protein Calibrator  
04 ..... Cell-Dyn calibrators  
06 ..... Chem. calibrators A, B, C  
28 ..... Clin Chem Cal  
27 ..... Cortisol Calibrator  
17 ..... Digitoxin  
08 ..... Fe/Mg calibrator  
13 ..... Ferritin calibrator  
15 ..... FT4 Calibrator  
09 ..... HDL calibrator  
31 ..... HDL/LDL Calibrator  
16 ..... ICT cal low and high  
19 ..... ISE calibrator  
34 ..... Lact cal  
24 ..... LDL Calibrator  
33 ..... MC Cal  
12 Multiconstituent calibrator (MCC)  
35 ..... Quantia Digitoxin Standard  
40 ..... Quantia IgE Standard  
25 ..... Specific Proteins Multi-constituent Calibrator  
22 ..... Total IgE calibrators  
14 ..... TSH Standard Calibrators  
99 ..... Other, please specify
- 078 ADVANCED INSTRUMENTS**  
01 ..... Calibration Standards  
99 ..... Other, please specify
- 399 ALFA WASSERMANN**  
03 ..... C-Reactive Protein Calibration Set  
02 ..... Direct HDL/LDL Cholesterol Calibrator  
01 ..... Gemcal  
99 ..... Other, please specify
- 153 ALPHA DIAGNOSTIC**  
01 ..... Albumin Standard 4.0 g/dl  
02 ..... Magnesium Standard 3.6 mg/dl  
03 ..... Multicalibrators  
04 ..... Phosphorus Standard 5.0 mg/dl  
05 ..... Uric Acid Standard 6.0 mg/dl  
99 ..... Other, please specify
- 193 AMP Diagnostics**  
02 ..... AMP-Multical  
07 ..... BR 9521  
04 ..... BR 9547  
03 ..... BR 9803  
06 ..... BR 9812  
05 ..... BR 9911  
99 ..... Other, please specify
- 006 ARKRAY (KYOTO DAIICHI)**  
02 ..... Arkray Standard  
01 ..... Spotchem Calibrator Kit  
04 ..... Spotchem E-plate calibrator  
03 ..... Spotchem ISE Reference  
99 ..... Other, please specify
- AVL (see Roche)
- 396 AXIS SHIELD**  
01 ..... Afinion
- 051 BECKMAN COULTER**  
36 ..... ALT 5 diff  
51 ..... AU System Calibrator  
01 ..... Bilirubin calibrator  
35 ..... C-RP Calibrator Set  
02 ..... Calibrator (ARRAY, Image)  
23 ..... Calibrators 1, 2, 3 for Synchron CX systems  
30 ..... Cortisol calibrator Access  
22 ..... Coulter S-Cal kit  
04 ..... CRP calibrator  
05 ..... Electrolyte calibration Kit  
06 ..... El'lyt, Calibrators 1, 2 and/or 3  
07 ..... Enzyme calibrator  
08 ..... Ferritin calibrator Access  
24 ..... Ferritin calibrator, Image  
11 ..... HDL calibrator  
12 ..... Iron/TIBC calibrator  
39 ..... LDLD calibrator  
32 ..... Lipid Calibrator  
14 ..... Multicalibrator  
99 ..... Other, please specify  
54 ..... Olympus CRP Calibrator  
55 ..... Olympus Ferritin calibrator  
57 ..... Olympus HDL Cholesterol Calibrator

- 50 ..... Olympus ISE Low/High
- 56 ..... Olympus LDL Cholesterol Calibrator
- 52 ..... Olympus Serum Protein Multicalibrator 1
- 53 ..... Olympus Serum Protein Multicalibrator 2
- 15 ..... Protein calibrator
- 16 ..... Protein calibrator level 1&2 (TP)
- 31 ..... Protein Calibrator, Immage
- 33 ..... Synchron LX AQUA Cal
- 34 ..... Synchron LX Calibrator 1
- 40 ..... T3 Calibrator Access
- 38 ..... T4 calibrator Access
- 17 ..... T4V calibrator Access
- 37 ..... Total IgE
- 18 ..... TSH calibrator Access
- 99 ..... Other, please specify
  
- 112 BIOCLIN**
- 02 ..... Bilirubin calibrator
- 04 ..... CRP calibrators
- 06 ..... Glucose calibrator 5 mmol/l
- 99 ..... Other, please specify
  
- 161 BIOCON**
- 08 ..... Bio-Cal L
- 01 ..... Multicalibrator Bio-Cal
- 02 ..... Multicalibrator Bio-Cal E
- 99 ..... Other, please specify
  
- 115 BIOLABO**
- 01 ..... Multiparametric Calibrator
- 99 ..... Other, please specify
  
- 336 BIOMAXIMA**
- 01 ..... BioCal
- 02 ..... HDL Cholesterol Calibrator
- 99 ..... Other, please specify
  
- 302 BIOMED**
- 02 ..... CRP-Dynamik Standardset
- 03 ..... Multical
- 99 ..... Other, please specify
  
- 095 BIOMERIEUX**
- 01 ..... Bilitrol
- 02 ..... Calcium standard solution
- 03 ..... Calimat Multiparammetric calibrator
- 04 ..... Cholesterol Calibrator
- 06 ..... Glucose standard solution
- 09 ..... HLD Cholesterol Calibrator
- 10 ..... LDL Cholesterol Calibrator
- 27 ..... Multicalibrator
- 11 ..... Protiline CRP Calibrator
- 26 ..... Vidas Cortisol Calibrator
- 28 ..... Vidas FER Standard
- 20 ..... Vidas FT4 Calibrator
- 19 ..... Vidas TSH Calibrator
- 99 ..... Other, please specify
  
- 188 BIOSYSTEMS**
- 02 ..... Calibrator serum
- 03 ..... Human Calibrator
- 04 ..... Protein calibrators
- 99 ..... Other, please specify
  
- 334 BIOTECNICA INSTRUMENTS**
- 01 ..... ISE calibrator
- 99 ..... Other, please specify
  
- 185 BIOTEST MEDIZINTECHNIK GMBH**
- 01 ..... Standard cuvette
  
- 139 BIOTROL**
- 01 ..... BioTrol Multicalibrator
- 99 ..... Other, please specify
  
- 179 CENTRONIC**
- 01 ..... Centrocal
- 02 ..... Centronorm
- 99 ..... Other, please specify
  
- 369 CHEMITECH**
- 02 ..... Autocal
- 01 ..... Chemitrol N
- 99 ..... Other, please specify
  
- 148 CORMAY**
- 01 ..... Albumin Standard
- 02 ..... Bilirubin Standards
- 03 ..... Calcium Standards
- 04 ..... Cholesterol Standard 200
- 05 ..... Cholesterol Standards
- 07 ..... Creatinine Standard
- 08 ..... Glucose Standard 100
- 16 ..... HDL Cholesterol standard
- 09 ..... HDL Direct Calibrator
- 10 ..... Iron Standards
- 17 ..... Mulicalibrator
- 11 ..... Phosphorus Standard
- 12 ..... Protein Standards
- 13 ..... Triglycerides Standard
- 14 ..... Urea Standard
- 15 ..... Uric Acid Standard
- 99 ..... Other, please specify
  
- 122 DAKO**
- 01 ..... CRP Calibrator
- 03 ..... CRP Calibrator
- 04 ..... Human Protein Calibrator
- 99 ..... Other, please specify
  
- 191 DIAGNOSTICUM**
- 06 ..... Calcium Standard 10 mg/dl
- 09 ..... Cholesterol Standard 200 mg/dl
- 03 ..... Creatinine Standard 2 mg/dl
- 11 ..... Duna Cal
- 02 ..... Guucose Standard 100 mg/dl
- 07 ..... Magnesium Standard 2 mg/dl
- 01 ..... Multicomponent calibrator
- 05 ..... Protein Standard 6000 mg/dl

- 10 ..... Triglycerid Standard 200 mg/dl  
04 ..... Urea Standard 50 mg/dl  
08 ..... Uric acid Standard 6 mg/dl  
99 ..... Other, please specify
- 324 DIAGON**  
04 ..... Human calibrator / level 1  
02 ..... Human calibrator / level 2  
03 ..... Multical  
99 ..... Other, please specify
- 167 DIALAB**  
06 ..... Creatinine Standard  
05 ..... Diacal auto  
11 ..... Glucose Standard  
08 ..... Magnesium Standard  
09 ..... Phosphorus Standard  
10 ..... Total Protein Standard  
07 ..... Urea Standard  
03 ..... Uric Acid Standard  
99 ..... Other, please specify
- 158 DIASYS**  
05 ..... Calibrator for Lipids  
07 ..... Glucose std 5,55 mmol/l  
04 ..... Multicalibrator  
11 ..... TruCal CRP  
10 ..... TruCal HDL-LDL  
12 ..... TruCal IgE  
09 ..... TruCal Protein  
03 ..... TruCal U  
06 ..... Universsal Calibration Serum  
99 ..... Other, please specify
- 319 ELITECH**  
02 ..... Bilical  
04 ..... Elical  
03 ..... Elical 2  
05 ..... Elitrol  
06 ..... HDL Calibrator  
07 ..... LDL Calibrator  
99 ..... Other, please specify
- 010 EPPENDORF**  
01 ..... EBIO/ESAT Glucose-Standard  
06 ..... EBIO/ESAT LACTAT STANDARD  
02 ..... Na, K, Cl standard  
04 ..... Serum Standard  
99 ..... Other, please specify
- 086 FISKE ASSOCIATES**  
01 ..... Calibration Standards (osmolality)  
99 ..... Other, please specify
- 404 FUTURA SYSTEMS**  
02 ..... HDL/LDL Calibrator  
01 ..... Multicalibrator
- 160 GENZYME**  
01 ..... N-geneous HDL-c  
02 ..... N-geneous LDL-c  
99 ..... Other, please specify
- 424 GESAN**  
01 ..... Calibrator Normal  
99 ..... Other, please specify
- 084 GONOTEC**  
02 ..... Calibration Standard  
300 mOsmol/kg  
99 ..... Other, please specify
- 048 HEMOCUE**  
01 ..... Standard cuvette
- 082 HORIBA ABX DIAGNOSTICS**  
01 ..... Bilirubin Calibrator  
02 ..... Calibrator  
13 ..... CBC-3D  
05 ..... CRP Standard  
09 ..... Glucose Calibrator  
03 ..... HDL Cholesterol Calibrator  
04 ..... LDL Cholesterol Calibrator  
11 ..... Pentra CRP Cal  
14 ..... Pentra Ferritin Cal  
15 ..... Pentra HDL Cholesterol calibrator  
12 ..... Pentra Multical  
16 ..... Pentra Protein Cal  
10 ..... Triglycerides Calibrator  
99 ..... Other, please specify
- 102 HUMAN**  
22 ..... Autocal  
01 ..... Calcium standard 8 mg/dl  
21 ..... Calibration Serum  
02 ..... Cholesterol standard 200 mg/dl  
03 ..... Cholesterol standard 50 mg/dl  
04 ..... Creatinine standard 2 mg/dl  
05 ..... Glucose standard 100 mg/dl  
06 ..... Humatrol N  
14 ..... Iron Standard 100 µg/dl  
20 ..... Multicomponent calibrator  
17 ..... Phosphor standard 10 mg/dl  
07 ..... Potassium standard 5.0 mmol/l  
08 ..... Protein standard 8 g/dl  
19 ..... Serodos Plus  
18 ..... Serum protein calibrator X 0908  
10 ..... Sodium standard 150 mmol/l  
11 ..... Triglycerides standard 200 mg/dl  
12 ..... Urea standard 80 mg/dl  
13 ..... Uric Acid standard 8 mg/dl  
99 ..... Other, please specify
- 420 I.S.E. S.r.l.**  
02 ..... HDL Calibrator  
01 ..... Multicalibrator  
99 ..... Other, please specify

**014 Instrumentation Laboratory (IL)**

- 01 ..... IL Calibration Standards (ISE)
- 02 ..... ISE Calibrator
- 09 ..... Litium Standard
- 08 ..... Na/K Standards
- 03 ..... Photometer standards, IL
- 15 ..... quantex Proteins standard  
multipoint
- 04 ..... ReferrIL A
- 05 ..... ReferrIL B
- 06 ..... ReferrIL G
- 07 ..... ReferrIL HDL-Cholesterol
- 14 ..... ReferrIL LDL-Cholesterol
- 13 ..... Solution Pack - ILyte
- 10 ..... Synthesis Cal 1 and Cal 2
- 99 ..... Other, please specify

**349 INVICON**

- 04 ..... HDL Calibrator
- 05 ..... Ig-MultiCal
- 01 ..... IgE Calibratorset
- 02 ..... KC-Cal
- 03 ..... LDL Calibrator
- 99 ..... Other, please specify

**121 LACHEMA**

- 01 ..... Bilirubin Standard
- 14 ..... LDL-Cholesterol calibrator
- 03 ..... Lyonorm Calibrator
- 06 ..... Solunorm Glucose
- 99 ..... Other, please specify

**344 LINEAR CHEMICALS**

- 01 ..... Cromatest Human Multitest  
Calibrator
- 02 ..... Multicalibrator CC / H
- 99 ..... Other, please specify

**091 MEDINOR**

- 01 ..... Seronorm
- 03 ..... Seronorm Human
- 04 ..... Seronorm Lipid
- 05 ..... Seronorm Protein
- 06 ..... Seronorm Trace elements / serum
- 99 ..... Other, please specify

**109 MERCK**

- 01 ..... Cholesterol standard solution
- 02 ..... Creatinine standard solution
- 03 ..... Glucose standard solution  
100 mg/dl
- 04 ..... System Multi-Test Calibrator  
(Substrates and electrolytes)
- 05 ..... System Multi-Test N Immuno-  
globulin Calibrator
- 07 ..... Titrisol
- 99 ..... Other, please specify

**020 NOVA BIOMEDICAL**

- 03 ..... Calibrator Pack Nova 8
- 99 ..... Other, please specify

**OLYMPUS** see Beckman Coulter

**055 ORION DIAGNOSTICA**

- 01 ..... CRP Calibrator Set
- 02 ..... CRP calibrator
- 03 ..... Protein Calibrator Set
- 04 ..... TfR Calibrator
- 99 ..... Other, please specify

**072 ORTHO-CLINICAL DIAGNOSTICS**

- 01 ..... Vitros Chemistry Calibrator Kit 1
- 24 ..... Vitros Chemistry Calibrator Kit 19
- 02 ..... Vitros Chemistry Calibrator Kit 2
- 23 ..... Vitros Chemistry Calibrator Kit 20
- 21 ..... Vitros Chemistry Calibrator Kit 21
- 22 ..... Vitros Chemistry Calibrator Kit 25
- 25 ..... Vitros Chemistry Calibrator Kit 29
- 03 ..... Vitros Chemistry Calibrator Kit 3
- 04 ..... Vitros Chemistry Calibrator Kit 4
- 07 ..... Vitros Chemistry Calibrator Kit 7
- 26 ..... Vitros Chemistry Calibrator Kit 99
- 11 ..... Vitros DT Specialty Calibrator
- 12 ..... Vitros DT-Plus Calibrator
- 15 ..... Vitros Immunodiagnosics  
Calibrator Ferritin
- 16 ..... Vitros Immunodiagnosics  
Calibrator Free T4
- 17 ..... Vitros Immunodiagnosics  
Calibrator Total T3
- 18 ..... Vitros Immunodiagnosics  
Calibrator Total T4
- 19 ..... Vitros Immunodiagnosics  
Calibrator TSH
- 99 ..... Other, please specify

**131 PHADIA**

- 01 ..... UniCAP Total IgE Calibrators  
(2-5000 kU/l)
- 99 ..... Other, please specify

**157 POINTE SCIENTIFIC**

- 10 ..... Chemistry Calibrator
- 99 ..... Other, please specify

**024 RADIOMETER**

- 08 ..... Cal G/L
- 07 ..... Lactate calibrator
- 06 ..... Radiometer Calibrator solution 1&2
- 03 ..... Radiometer calibrators (ISE)
- 04 ..... Radiometer Lithium calibrator
- 01 ..... tHb Calibration Solution
- 99 ..... Other, please specify

**117 RANDOX**

- 36 ..... Calcium Standard 2,5 mmol/l
- 06 ..... Calibration serum level 1
- 07 ..... Calibration serum level 2
- 48 ..... Calibration serum level 3
- 45 ..... CHOD-POD Liiquid
- 35 ..... Cholesterol calibrator
- 32 ..... Cholesterol standard 5,17 mmol/l

- 01 ..... CRP calibrator
- 08 ..... Direct LDL/HDL cholesterol calibrator
- 38 ..... Electrolyte CAL1
- 47 ..... Fe, ferrozin
- 46 ..... GPO-POD Liquid
- 49 ..... IG Calibrator
- 39 ..... IgE Calibrator Series
- 33 ..... Iron standard 35,8 umol/l
- 04 ..... Magnesium Standard
- 37 ..... Potassium Standard 5 mmol/l
- 34 ..... Urea Standard 13,3 mmol/l
- 41 ..... Ureaz. Color.
- 03 ..... Uric Acid Standard
- 44 ..... Urikaz-POD Liquid
- 99 ..... Other, please specify

**026 ROCHE**

- 51 ..... AVL Electrolyte systems
- 52 ..... AVL ISE Calibrators
- 53 ..... AVL ISE SnapPak
- 01 ..... Calibrator for automated systems (c.f.a.s.)
- 02 ..... Calibrator for automated systems (c.f.a.s.)HDL/LDL Chol
- 39 ..... Calibrator for automated systems (c.f.a.s.) Lipids
- 03 ..... Calibrator for automated systems (c.f.a.s.) Proteins
- 04 ..... Calibrator HDL-Direct
- 05 ..... Calibrator Human
- 06 ..... Calibrator LDL-Direct
- 40 ..... Calibrators for Omnic
- 07 ..... Cardiotrol
- 08 ..... CRP-T Standard
- 09 ..... Elecsys CalSet Cortisol
- 62 ..... Elecsys CalSet Digitoxin
- 10 ..... Elecsys CalSet Ferritin
- 11 ..... Elecsys CalSet FT4
- 12 ..... Elecsys CalSet IgE
- 13 ..... Elecsys CalSet T3
- 14 ..... Elecsys CalSet T4
- 15 ..... Elecsys CalSet TSH
- 16 ..... Ferr T Standard
- 78 ..... ISE calibrator direct
- 74 ..... ISE calibrator indirect/ur
- 17 ..... ISE Standard Low / High
- 18 ..... L-Lactate standard
- 73 ..... NoviCal Multi
- 19 ..... Plasmaproteins T Standard
- 20 ..... Precibil
- 21 ..... Precimat Creatinine
- 22 ..... Precimat D-glucose
- 23 ..... Precimat Glucose
- 24 ..... Precimat Glycerol
- 26 ..... Precimat Uric Acid
- 76 ..... Precinorm HDL
- 75 ..... Precinorm U
- 28 ..... Preciset Ferritin
- 70 ..... Preciset IgE
- 29 ..... Preciset Serum Proteins

- 36 ..... Preciset sTfR
- 77 ..... Preciset TDM Calibrators
- 30 ..... Roche-TDM Online Digitoxin Calibrator
- 31 ..... Serumprotein T Standard
- 32 ..... Standards for ISE
- 99 ..... Other, please specify

**062 ROEBLING**

- 01 ..... Standardlösung
- 99 ..... Other, please specify

**303 SENTINEL CH.**

- 09 ..... 3K2810
- 08 ..... Acto set C800 HDL/LDL
- 06 ..... Clin Chem Cal
- 03 ..... HDL Calibrator
- 01 ..... HDL/LDL Calibrator
- 07 ..... HDL/LDL Cholesterol Calibrator
- 02 ..... Iron standard
- 05 ..... Sentinel Zink Standard
- 04 ..... Sentinel Clin Chem Cal
- 99 ..... Other, please specify

**057 SIEMENS**

- 93 ..... Advia Chemistry ISE Standard set
- 33 ..... Advia CRP calibrator
- 25 ..... HDL cholesterol calibrator
- 34 ..... Advia HDL/LDL-Cholesterol calibrator
- 01 ..... Advia SETpoint Hematology Calibrator
- 37 ..... Advia Spec. Prot. Cal. Set
- 67 ..... Bayer SET Point Cortisol
- 10 ..... Calibrator A
- 11 ..... Calibrator B
- 89 ..... CBC-3D
- 69 ..... Cel-Pak 754
- 92 ..... Chemistry Calibrator
- 86 ..... Creatine Kinase Verifier
- 70 ..... Dimension ADHL Calibrator
- 79 ..... Dimension ALDL Calibrator
- 71 ..... Dimension Chemistry I Calibrator
- 72 ..... Dimension Chemistry II Calibrator
- 73 ..... Dimension CHOL Calibrator
- 74 ..... Dimension Enzyme Verifier
- 78 ..... Dimension HDL Calibrator
- 77 ..... Dimension IRN/TIBC Calibrator
- 75 ..... Dimension Revised C-Reactive Protein Calibrator
- 76 ..... Dimension TBIL/DBIL Calibrator
- 87 ..... Drug calibrator
- 88 ..... Drug calibrator II
- 29 ..... Express calibrators 1 & 2
- 90 ..... Ferritin Calibrator
- 28 ..... ISE calibrators
- 31 ..... ISE Reference (Advia)
- 80 ..... N CRP Standard
- 81 ..... N Ferritin Standard
- 82 ..... N Protein Standard SL
- 83 ..... High sensit.CRP IDN Rheum St. SL
- 84 ..... QuikLyte Standard A/B
- 36 ..... SERA-PAK Immuno Calibrator
- 08 ..... SETpoint TSH

- 02 ..... SETpoint (ISE)
  - 03 ..... SETpoint Chemistry calibrator
  - 04 ..... SETpoint Ferritin
  - 05 ..... SETpoint Free T4
  - 07 ..... SETpoint Transferrin
  - 91 ..... Special protein calibrator
  - 32 ..... Specific Protein Reference Serum
  - 85 ..... Total Protein/Albumin Calibrator
  - 99 ..... Other, please specify
- 199 SPINREACT**
- 07 ..... CRP Turbilatex calibrator
  - 05 ..... HDL Calibrator
  - 06 ..... LDL Calibrator
  - 02 ..... Serum Protein Calibrator
  - 04 ..... Spintrol
  - 03 ..... Trucal N
  - 99 ..... Other, please specify
- 030 SYSMEX**
- 03 ..... e-CHECK
  - 02 ..... SCS-1000
  - 99 ..... Other, please specify
- 017 THERMO FISCHER SCIENTIFIC**
- 01 ..... Albumin Calibrator (in reagent kit)
  - 02 ..... Calibrator I / II Multicalibrator
  - 16 ..... Copper Standard TR61901
  - 03 ..... CRP Calibration set 5-220 mg/l
  - 13 ..... CRP Plus Calibrator
  - 11 ..... eCal
  - 10 ..... HDL-Cholesterol Calibrator
  - 04 ..... HDL/LDL Calibrator
  - 05 ..... ISE calibrators
  - 14 ..... ISE Calibrators 2&3
  - 17 ..... Lithium Infinity
  - 15 ..... Lithium Standard
  - 12 ..... sCal
  - 07 ..... SpeciCal (Protein multicalibrator)
  - 99 ..... Other, please specify
- 032 VITALAB**
- 01 ..... Calibrator Kit
  - 99 ..... Other, please specify
- 118 WAKO**
- 02 ..... HDL-C direct Calibrator
  - 06 ..... Zinc calibrator
  - 99 ..... Other, please specify