



**Parameter declaration / Parameterbezeichnung / Indice paramètre / Índice de parametros**

Terms	Begriffe	Termes	Términos	Termer	Termini	Termos	Ordliste
Assay value	Sollwert	Valeur cible	Valor medio	Börfvärde	Valore nominale	Valor ensaio	Assay værdi
continued	fortgesetzt	continué	continuado	fortsatt	continuato	continuado	fortsat
Exp. (Expiry date)	Verfallsdatum	Date de péremption	Fecha de caducidad	Utgångsdatum	Data di scadenza	Prazo Validade	Udløbsdato
Manufacturer	Hersteller	Fabriqué par	Fabricant	Tillverkare	Produttore	Fabricante	Producent
Max. limits	Max. Bereich	Limites max.	Limites máx.	Maxgräns	Ambito massimo	Limites max.	Max. grænser
Method	Méthode	Méthode	Método	Metod	Método	Método	Métode
Protein electrophoresis	Eiweiß-Elektrophorese	Electrophorèse de protéines	Electroforesis de las proteínas	Proteinelektrofores	Elettroforesi delle proteine	Electroforese das proteínas	Protein elektroforese
Reference method	Referenzmethode	Méthode reference	Método de referencia	Referensmetod	Metodi di riferimento	Método de referência	Referencemétode
Short forms	Abkürzungen	Abréviation	Abreviatura	Förkortning	Abbreviazioni	Formulários curtos	Kort form
Unit	Einheit	Unité	Unidad	Enhet	Unitá	Unidade	Enhed
Universal control serum	Universal-Kontrollserum	Sérum de contrôle universel	Suero de control universal	Allmän kontrollserum	Siero di controllo universal	Soro controlo universal	Universal kontrol serum

Constituent	Bestandteil	Constituant	Componento	Bestandsdelar	Componenti	Componento	Bestanddel
Acetaminophen	Acetaminophen	Acétaminophène	Acetaminofeno	Acetaminofen	Acetaminofenolo	Acetaminofeno	Acetaminophen
Total Acid Phosphatase (ACP)	Saure Phosphatase, gesamt	Phosphatase acide, totale	Fosfatasa ácida, Total	Surt fosfatas, totalt	Fosfatasi acida totale	Fosfatase ácida, Total	Sur phosphatase, total
Albumin	Albumin	Albumine	Albumina	Albumin	Albumina	Albumina	Albumin
Aldolase	Aldolase	Aldolase	Aldolasa	Aldolas	Aldolasi	Aldolase	Aldolase
Alkaline Phosphatase	Alkalische Phosphatase	Phosphatase alcaline	Fosfatasa alcalina	Alkaliskt fosfatas	Fosfatasi alcalina	Fosfatase alcalina	Alkalisk phosphatase
ALT/GPT	ALT/GPT	ALT/GPT	ALT/GPT	ALT/GPT	ALT/GPT	ALT/GPT	ALT/GPT
AST/GOT	AST/GOT	AST/GOT	AST/GOT	AST/GOT	AST/GOT	AST/GOT	AST/GOT
α-Amylase	α-Amylase	α-Amylase	α-Amilasa	α-Amylas	α-Amilasi	α-Amilase	α-Amylase
Pancreatic amylase	Pankreas Amylase	Amylase pancréatique	Amilasa pancreática	Pankreas amylas	Amilasi pancreatica	Amilase pancreática	Pancreatisk amylase
Apolipoprotein A	Apolipoprotein A	Apolipoprotéine A	Apolipoproteína A	Apolipoprotein A	Apolipoproteina A	Apolipoproteína A	Apolipoprotein A
Apolipoprotein B	Apolipoprotein B	Apolipoprotéine B	Apolipoproteína B	Apolipoprotein B	Apolipoproteina B	Apolipoproteína B	Apolipoprotein B
Bicarbonate	Bicarbonat	CO <sub>2</sub>	CO <sub>2</sub>	Bikarbonat	CO <sub>2</sub>	CO <sub>2</sub>	CO <sub>2</sub>
Bile Acids	Gallensäure	Acides biliars	Ácidos biliars	Gallsyra	Acido biliare	Acido biliare	Galdesyre
Direct Bilirubin	Direktes Bilirubin	Bilirubine directe	Bilirubina directa	Direkt Bilirubin	Bilirubina diretta	Bilirubina Directa	Direkte Bilirubin
Bilirubin total	Gesambilirubin	Bilirubine totale	Bilirubina total	Bilirubin total	Bilirubina totale	Bilirubina total	Bilirubin total
Calcium	Calcium	Calcium	Calcium	Kalcium	Calcio	Cálcio	Calcium
Carbamazepine	Carbamazepin	Carbamazépine	Carbamacepina	Karbamazepin	Carbamazepina	Carbamazepina	Carbamazepin
Chloride	Chlorid	Chlorure	Cloruro	Klorid	Cloruro	Cloreto	Chlorid
Cholinesterase	Cholinesterase	Cholinestérase	Colinesterasa	Kolinesteras	Colinesterasi	Colinesterase	Cholinesterase
Cholesterol	Cholesterin	Cholestérol	Colesterol	Kolesterol	Colesterolo	Colesterol	Cholesterol
Free Cholesterol	Freies Cholesterin	Cholestérol libre	Colesterol libre	Fritt Kolesterol	Colesterolo	Colesterol	Frit Cholesterol
CK	CK	CK	CK	CK	CK	CK	CK
CK-MB	CK-MB	CK-MB	CK-MB	CK-MB	CK-MB	CK-MB	CK-MB
Copper	Kupfer	Cuivre	Cobre	Koppar	Rame	Cobre	Kobber
Cortisol	Hydrocortison	Cortisol	Cortisol	Cortisol	Cortisol	Cortisol	Cortisol
Creatinine	Kreatinin	Créatinine	Creatinina	Kreatinin	Creatinina	Creatinina	Creatinin
Digoxin	Digoxin	Digoxine	Digoxin	Digoxin	Digossina	Digoxina	Digoxin
γ-GT	γ-GT	γ-GT	γ-GT	γ-GT	γ-GT	γ-GT	γ-GT



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Constituent	Bestandteil	Constituant	Componento	Bestandsdelar	Componenti	Componento	Bestanddel
γ-Globulin	γ-Globulin	γ-Globuline	γ-Globulina	γ-Globulin	γ-Globulina	γ-Globulina	γ-Globulin
Gentamicin	Gentamycin	Gentamicine	Gentamicina	Gentamicin	Gentamicina	Gentamicina	Gentamicin
GLDH	GLDH	GLDH	GLDH	GLDH	GLDH	GLDH	GLDH
Glucose	Glucose	Glucose	Glucosa	Glukos	Glucosio	Glicose	Glucose
α-HBDH	α-HBDH	α-HBDH	α-HBDH	α-HBDH	α-HBDH	α-HBDH	α-HBDH
β-Hydroxybutyric acid	β-Hydroxybuttersäure	Acide hydroxy butyrique	Ácido 2-hidroxibutírico	β-Hydroxybutyryl syra	Acido-Idrossibutirrico	Ácido-hidroxibutírico	β-Hydroxybutyryl syre
IgA	IgA	IgA	IgA	IgA	IgA	IgA	IgA
IgE	IgE	IgE	IgE	IgE	IgE	IgE	IgE
IgG	IgG	IgG	IgG	IgG	IgG	IgG	IgG
IgM	IgM	IgM	IgM	IgM	IgM	IgM	IgM
Iron	Eisen	Fer	Hierro	Järn	Ferro	Ferro	Jern
Iron TIBC (Iron-Binding Capacity, Total)	TEBK Totale Eisenbindungskapazität	TIBC Capacité de fixation du fer, total	TIBC Capacidad total de fijación del hierro	TIBC Järmbindande kapacitet, total	TIBC Capacità totale del ferro legante	TIBC Capacidade de ligação ao ferro total	TIBC Jernbindingskapacitet, total
Iron UIBC (Iron-Binding Capacity, Unsaturated)	LEBK Latente Eisenbindungs Kapazität	UICB Capacité de fixation du fer, insaturé	UICB Capacidad insaturada de fijación de hierro	UICB Järmbindande kapacite, omättad	UICB Capacità del ferro legante insaturo	UICB Capacidade de ligação ao ferro não saturada	UICB Jernbindingskapacitet, umättet
Lactate (Lactic Acid)	Lactat (Milchsäure)	Lactate (acide lactique)	Lactato (ácido láctico)	Laktat (mjölksyra)	Lattato (ácido lattico)	Lactat (Ácido láctico)	Lactat (mælkesyre)
LAP - Arylamidase	LAP - Arylamidase	LAP - Arylamidase	LAP - Arilamidasa	LAP - Arylamidas	LAP - Arilamidasi	LAP - Arilamidase	LAP - Arylamidase
LDH-L	LDH-L	LDH-L	LDH-L	LDH-L	LDH-L	LDH-L	LDH-L
LDH-P	LDH-P	LDH-P	LDH-P	LDH-P	LDH-P	LDH-P	LDH-P
Lipase	Lipase	Lipase	Lipasa	Lipas	Lipasi	Lipase	Lipase
Lithium	Lithium	Lithium	Litio	Litium	Litio	Lítio	Lithium
Magnesium	Magnesium	Magnésium	Magnesio	Magnesium	Magnesio	Magnésio	Magnesium
Phenylalanine	Phenylalanin	Phénylalanine	Phenylalanino	Fenylalanin	Phenylalanine	Phenylalanine	Phenylalanin
Phenytoin	Phenytoin	Phenitoïne	Fenitoína	Fenytoin	Fenitoína	Fenitoína	Phenytoin
Phospholipids	Phospholipide	Phospholipides	Fosfolípidos	Fosforlipid	Fosfolípida	Fosfolípidos	Fosforlipid
Inorganic phosphate	Phosphor anorganisch	Phosphore inorganique	Fósforo inorgánico	Fosfor	Fosforo	Fósforo	Phosphor
Potassium	Kalium	Potassium	Potasio	Kalium	Potassio	Potássio	Kalium
Protein electrophoresis	Eiweiß-Elektrophorese	Electrophorèse de protéines	Electroforesis de las proteínas	Proteinelectrofores	Elettroforesi delle proteine	Electroforesis de proteínas	Protein electrophorese
Salicylate	Salicylat	Salicylate	Salicilato	Salicylat	Salicilato	Salicilato	Salicylat
Sodium	Natrium	Sodium	Sodio	Natrium	Sodio	Sódio	Natrium
Total protein	Gesamtprotein	Protéines totales	Total proteínas	Totalt protein	Proteina totale	Total proteína	Total protein
Triiodothyronine (T3)	Triiodothyronine (T3)	Triiodothyronine (T3)	Triiodothyronine (T3)	Triiodothyronin (T3)	Triiodothyronine (T3)	Triiodothyronine (T3)	Triiodothyronin (T3)
T3 Uptake	T3-Aufnahme	T3, fixation	T3 (Respuesta)	T3-upptag	Captazione T3	Absorção de T3	T3 absorption
Thyroxine-T4	Thyroxine-T4	Thyroxine-T4	Thyroxine-T4	Thyroxin-T4	Thyroxine-T4	Thyroxine-T4	Thyroxin-T4
Theophylline	Theophyllin	Théophylline	Teofilina	Teofyllin	Teofilina	Teofilina	Theophyllin
Tobramycin	Tobramycin	Tobramycine	Tobramicina	Tobramycin	Tobramicina	Tobramicina	Tobramycin
Transferrin	Transferrin	Transferrine	Transferrina	Transferrin	Transferrina	Transferrina	Transferrin
Triglycerides	Triglyceride	Triglycérides	Triglicéridos	Triglycerider	Trigliceridi	Triglicérideos	Triglycerider
TSH (Thyroid Stimulating Hormone)	TSH (Thyreoida-stimulierendes Hormon)	TSH (Hormone de stimulation de la thyroïde)	TSH (Hormona estimulante del tiroides)	TSH (Thyreoidaestimulerande hormon)	TSH (Ormone stimolante la tiroide)	TSH (Hormona tirotrópica)	TSH (Thyreoidaestimulerende hormon)
Urea	Harnstoff	Urée	Urea	Urea	Urea	Ureia	Urea
Uric Acid	Harnsäure	Acide urique	Ácido úrico	Urinsyra	Acido urico	Ácido úrico	Urinsyre
Zinc	Zink	Zinc	Zinc	Zink	Zinco	Zinco	Zink



Constituent	Method	Unit	Assay value	Max. limits**	Unit	Assay value	Max. limits**	
<b>Reference method</b>								
ALT/GPT	IFCC Reference method, 37 °C	INSTAND	U/L	17,3	13,3 - 21,3	µkat/L	0,29	0,22 - 0,35
AST/GOT	IFCC Reference method, 37 °C	INSTAND	U/L	23,9	18,4 - 29,4	µkat/L	0,40	0,31 - 0,49
Calcium	Atomic absorption spectrometry	INSTAND	mmol/L	2,39	2,13 - 2,65	mg/dL	9,579	8,52 - 10,6
	Flame emission spectrometry		mmol/L	2,34	2,08 - 2,60	mg/dL	9,38	8,35 - 10,4
Cholesterol	Gas-chromat.-isotope dilution mass spectro.	INSTAND	mg/dL	133	114 - 152	mmol/L	3,44	2,96 - 3,92
Chloride	Coulometry	INSTAND	mmol/L	100	91,0 - 109	mg/dL	355	323 - 387
CK	IFCC Reference method, 37 °C	INSTAND	U/L	144	115 - 173	µkat/L	2,40	1,92 - 2,88
Copper	Mass spectroscopy		µg/dL	106	84,8 - 127	µmol/L	16,7	13,3 - 20,0
Creatinine	Gas-chromat.-isotope dilution mass spectro.	INSTAND	mg/dL	1,27	1,03 - 1,51	µmol/L	112	90,9 - 134
γ-GT	IFCC 37 °C	INSTAND	U/L	31,5	24,6 - 38,4	µkat/L	0,53	0,41 - 0,64
Glucose	Gas-chromat.-isotope dilution mass spectro.	INSTAND	mg/dL	95,0	79,8 - 110	mmol/L	5,27	4,43 - 6,12
LDH	IFCC Reference method, 37 °C	INSTAND	U/L	138	113 - 163	µkat/L	2,30	1,89 - 2,71
Lithium	Atomic absorption spectrometry	INSTAND	mmol/L	1,16	0,998 - 1,322	mg/dL	0,805	0,692 - 0,918
Magnesium	Atomic absorption spectrometry	INSTAND	mmol/L	0,842	0,707 - 0,977	mg/dL	2,05	1,72 - 2,37
Potassium	Flame emission spectrometry	INSTAND	mmol/L	4,38	3,99 - 4,77	mg/dL	17,1	15,6 - 18,7
Sodium	Flame emission spectrometry	INSTAND	mmol/L	143	134 - 152	mg/dL	329	309 - 349
Total protein	Modified Biuret method	INSTAND	g/L	51,1	45,5 - 56,7	g/dL	5,11	4,55 - 5,67
Triglycerides	Gas-chromat.-isotope dilution mass spectro.	INSTAND	mg/dL	85,8	70,4 - 101	mmol/L	0,97	0,79 - 1,14
Urea	Gas-chromat.-isotope dilution mass spectro.	INSTAND	mg/dL	49,2	38,4 - 60,0	mmol/L	8,19	6,39 - 9,99
Uric acid	Gas-chromat.-isotope dilution mass spectro.	INSTAND	mg/dL	6,23	5,36 - 7,10	µmol/L	371	319 - 422
Zinc	Mass spectroscopy		µg/dL	199	159 - 239	µmol/L	30,4	24,3 - 36,5
Phenylalanine	Ion Exchange Chromatography		µmol/L	185	148 - 222	mg/dL	3,06	2,44 - 3,67

<b>DiaSys</b>								
Albumin	Bromocresol green	1 0220	g/dL	3,47	2,67 - 4,27	g/L	34,7	26,7 - 42,7
	Bromocresol green conc.	2 0250	g/dL	3,56	2,74 - 4,38	g/L	35,6	27,4 - 43,8
Alkaline phosphatase	IFCC 37 °C	1 0441	U/L	71,6	53,7 - 89,5	µkat/L	1,19	0,90 - 1,49
	DGKC 1970 37 °C	1 0401	U/L	165	124 - 206	µkat/L	2,75	2,06 - 3,44
ALT/GPT	IFCC, SFBC, SEQC, with P5P 37 °C	1 2701+2 5010	U/L	18,3	14,1 - 22,5	µkat/L	0,31	0,23 - 0,38
	IFCC, NVKC, without P5P 37 °C	1 2701	U/L	19,3	14,9 - 23,7	µkat/L	0,32	0,25 - 0,40
	IFCC, with P5P 37 °C conc.	2 2705+2 5010	U/L	17,9	13,8 - 22,0	µkat/L	0,30	0,23 - 0,37
AST/GOT	IFCC, SFBC, SEQC, with P5P 37 °C	1 2601+2 5010	U/L	28,6	22,0 - 35,2	µkat/L	0,48	0,37 - 0,59
	IFCC, NVKC, without P5P 37 °C	1 2601	U/L	26,7	20,6 - 32,8	µkat/L	0,45	0,34 - 0,55
	IFCC, with P5P 37 °C conc.	2 2605+2 5010	U/L	24,2	18,6 - 29,8	µkat/L	0,40	0,31 - 0,50
α-Amylase	EPS G-7	1 0501	U/L	74,7	59,8 - 89,6	µkat/L	1,25	1,00 - 1,49
	CNP-G3 37 °C	1 0510	U/L	87,1	69,7 - 105	µkat/L	1,45	1,16 - 1,74
Pancreatic amylase	EPS G-7	1 0551	U/L	41,6	33,3 - 49,9	µkat/L	0,69	0,55 - 0,83
Apolipoprotein A	Immunological turbidimetric test	1 7102	mg/dL	124	99,2 - 149	g/L	1,24	0,99 - 1,49
Apolipoprotein B	Immunological turbidimetric test	1 7112	mg/dL	54,9	43,9 - 65,9	g/L	0,55	0,44 - 0,66
Bicarbonate (CO <sub>2</sub> )	Enzymatic test using NADH analogue	1 0950	mmol/L	15,6	12,5 - 18,7	mEq/L	15,6	12,5 - 18,7
Bile Acids	Calibrated with Bile Acid standard	1 2212	µmol/L	5,76	4,61 - 6,91	-	-	- - -
	Calibrated with TruCal U	1 2212	µmol/L	8,82	7,06 - 10,6	-	-	- - -
Direct Bilirubin	DCA	1 0821	mg/dL	0,57	0,17 - 0,97	µmol/L	9,75	7,21 - 12,3
	Jendrassik-Grof	1 0849	mg/dL	0,57	0,17 - 0,97	µmol/L	9,78	7,24 - 12,3
Bilirubin total	DCA	1 0811	mg/dL	0,91	0,51 - 1,31	µmol/L	15,6	11,5 - 19,6
	Jendrassik-Grof	1 0849	mg/dL	1,03	0,63 - 1,43	µmol/L	17,6	13,0 - 22,2
Calcium	CPC	1 1121	mg/dL	9,35	8,32 - 10,4	mmol/L	2,33	2,08 - 2,59
	CPC conc.	2 1145	mg/dL	8,63	7,68 - 9,58	mmol/L	2,15	1,92 - 2,39
	Arsenazo	1 1130	mg/dL	9,33	8,30 - 10,4	mmol/L	2,33	2,07 - 2,58
	Phosphonazo	1 1181	mg/dL	9,45	8,41 - 10,5	mmol/L	2,36	2,10 - 2,62
Chloride	Thiocyanate	1 1200	mmol/L	101	91,9 - 110	mg/dL	359	326 - 391
	ISE direct	Respons 920	mmol/L	*	- - -	mg/dL	*	- - -
Cholesterol	CHOD-PAP	1 1350+1 1300	mg/dL	135	116 - 154	mmol/L	3,49	3,00 - 3,98
	CHOD-PAP conc.	2 1300	mg/dL	132	114 - 150	mmol/L	3,41	2,94 - 3,89
Free Cholesterol	CHOD-PAP	1 1360	mg/dL	25,3	21,8 - 28,8	mmol/L	0,65	0,56 - 0,75
Cholinesterase	Butyrylthiocholin method	11401	U/L	3897	3196 - 4598	µkat/L	65,0	53,3 - 76,6
CK	DGKC, IFCC, NVKC, SEQC 37 °C	1 1601	U/L	145	116 - 174	µkat/L	2,42	1,93 - 2,90
CK-MB	Immuninhibition method, 37 °C	1 1651	U/L	51,2	41,0 - 61,4	µkat/L	0,85	0,68 - 1,02
	mAK, Immunological method, 37 °C	1 1641	U/L	49,7	39,8 - 59,6	µkat/L	0,83	0,66 - 0,99
Copper	DiBrom-PAESA	1 0420	µg/dL	146	117 - 175	µmol/l	23,0	18,4 - 27,6
Creatinine	Jaffe without compensation	1 1711	mg/dL	1,42	1,11 - 1,73	µmol/L	126	97,9 - 153
	Jaffe with compensation	1 1711	mg/dL	1,32	1,03 - 1,61	µmol/L	117	91,0 - 142
	Enzymatic PAP	1 1759	mg/dL	1,12	0,87 - 1,37	µmol/L	99,0	77,2 - 121
	Jaffe with compensation, conc.	2 1739	mg/dL	1,21	0,94 - 1,48	µmol/L	107	83,4 - 130



Constituent	Method	Unit	Assay value	Max. limits**	Unit	Assay value	Max. limits**
<b>DiaSys (continued)</b>							
Free Glycerol	Colorimetric	1 5730	mg/dL	<b>4,15</b>	3,32 - 4,98	mmol/L	<b>0,45</b> 0,36 - 0,54
γ-GT	IFCC, DGKC 1994 37 °C	1 2801	U/L	<b>28,3</b>	22,1 - 34,5	μkat/L	<b>0,47</b> 0,37 - 0,58
	Szasz 37 °C	1 2801	U/L	<b>25,0</b>	19,5 - 30,5	μkat/L	<b>0,42</b> 0,33 - 0,51
	Szasz, stand. to IFCC, 37 °C conc.	2 2805	U/L	<b>31,6</b>	24,6 - 38,6	μkat/L	<b>0,53</b> 0,41 - 0,64
GLDH	DGKC 1970 37 °C	1 2411	U/L	<b>10,1</b>	8,09 - 12,1	μkat/L	<b>0,17</b> 0,13 - 0,20
Glucose	GOD-PAP	1 2550+1 2500	mg/dL	<b>91,0</b>	76,4 - 106	mmol/L	<b>5,05</b> 4,24 - 5,86
	HK/G6P-DH	1 2511	mg/dL	<b>90,1</b>	75,7 - 105	mmol/L	<b>5,00</b> 4,20 - 5,80
	Gluc-DH	1 2531	mg/dL	<b>91,5</b>	76,9 - 106	mmol/L	<b>5,08</b> 4,27 - 5,89
	Gluc-DH conc.	2 2539	mg/dL	<b>89,6</b>	75,3 - 104	mmol/L	<b>4,97</b> 4,18 - 5,77
α-HBDH	DGKC 37 °C	1 3201	U/L	<b>143</b>	114 - 172	μkat/L	<b>2,38</b> 1,91 - 2,86
HDL-Cholesterol	Immunoinhibition	13521	mg/dL	<b>39,9</b>	34,3 - 45,5	mmol/L	<b>1,03</b> 0,89 - 1,18
	Precipitant	11350/11300+13540	mg/dL	<b>not applicable / nicht Anwendbar / non applicable / no aplicable</b>			
β-Hydroxybutyrate	β-HBDH / Diaphorase 37 °C	1 3701	mmol/L	<b>0,26</b>	0,21 - 0,31	mg/dL	<b>2,73</b> 2,18 - 3,27
IgA	Immunological turbidimetric test	1 7202	mg/dL	<b>158</b>	120 - 196	g/L	<b>1,58</b> 1,20 - 1,96
IgE	Immunological turbidimetric test	1 7239	IU/mL	<b>51,7</b>	41,4 - 62,0	ng/mL	<b>124</b> 99,3 - 149
IgG	Immunological turbidimetric test	1 7212	mg/dL	<b>735</b>	588 - 882	g/L	<b>7,35</b> 5,88 - 8,82
IgM	Immunological turbidimetric test	1 7222	mg/dL	<b>66,6</b>	48,0 - 85,2	g/L	<b>0,67</b> 0,48 - 0,85
Iron	Ferene	1 1911	μg/dL	<b>100</b>	86,0 - 114	μmol/L	<b>17,9</b> 15,4 - 20,4
Lactate (Lactic acid)	LDH UV endpoint	1 4001	mmol/L	<b>1,47</b>	1,16 - 1,78	mg/dL	<b>13,2</b> 10,46 - 16,0
LDH	IFCC, DGKC 1994 37 °C	1 4211	U/L	<b>143</b>	117 - 169	μkat/L	<b>2,38</b> 1,95 - 2,81
	IFCC 37 °C conc.	2 4269	U/L	<b>144</b>	118 - 170	μkat/L	<b>2,40</b> 1,97 - 2,83
	DGKC opt. 1970 37 °C	1 4201	U/L	<b>275</b>	226 - 325	μkat/L	<b>4,58</b> 3,76 - 5,41
LDL-Cholesterol	Homogenous Select; only valid for Hitachi analyzer	14121	mg/dL	<b>67,4</b>	58,0 - 76,8	mmol/L	<b>1,74</b> 1,50 - 1,99
	Precipitant	11350/11300+14330	mg/dL	<b>not applicable / nicht Anwendbar / non applicable / no aplicable</b>			
Lipase	Enzymatic colorimetric test 37 °C	1 4321	U/L	<b>40,9</b>	32,7 - 49,1	μkat/L	<b>0,68</b> 0,55 - 0,82
Magnesium	Xylidyl blue method	1 4610	mg/dL	<b>2,04</b>	1,71 - 2,37	mmol/L	<b>0,84</b> 0,70 - 0,97
Inorganic phosphate	Molybdate UV, substrate start	1 5211	mg/dL	<b>3,27</b>	2,68 - 3,86	mmol/L	<b>1,06</b> 0,87 - 1,25
	Molybdate UV, sample start	1 5211	mg/dL	<b>3,39</b>	2,78 - 4,00	mmol/L	<b>1,09</b> 0,90 - 1,29
Phospholipids	Enzymatic	1 5741	mg/dL	<b>168</b>	134 - 202	mmol/L	<b>2,17</b> 1,73 - 2,60
Potassium	ISE direct	Respons 920	mmol/L	*	- - -	mg/dL	* - - -
Sodium	ISE direct	Respons 920	mmol/L	*	- - -	mg/dL	* - - -
Total protein	Biuret without sample blank	1 2311	g/dL	<b>5,78</b>	5,14 - 6,42	g/L	<b>57,8</b> 51,4 - 64,2
	Biuret with sample blank	1 2311	g/dL	<b>5,28</b>	4,70 - 5,86	g/L	<b>52,8</b> 47,0 - 58,6
	Biuret conc.	2 2329	g/dL	<b>5,16</b>	4,59 - 5,73	g/L	<b>51,6</b> 45,9 - 57,3
Transferrin	Immunological turbidimetric test	1 7252	mg/dL	<b>187</b>	150 - 224	g/L	<b>1,87</b> 1,50 - 2,24
Triglycerides	GPO-PAP	1 5760+1 5710	mg/dL	<b>78,5</b>	64,4 - 92,6	mmol/L	<b>0,88</b> 0,72 - 1,04
	GPO-PAP conc.	2 5770	mg/dL	<b>80,8</b>	66,3 - 95,3	mmol/L	<b>0,91</b> 0,75 - 1,07
UIBC	Ferene	1 1921	μg/dL	<b>172</b>	138 - 206	μmol/L	<b>30,8</b> 24,6 - 37,0
Urea	Urease UV	1 3101	mg/dL	<b>42,5</b>	33,2 - 51,9	mmol/L	<b>7,08</b> 5,52 - 8,63
	Urease UV conc.	2 3105	mg/dL	<b>42,1</b>	32,8 - 51,4	mmol/L	<b>7,01</b> 5,47 - 8,55
Uric Acid	Enzymatic colorimetric test TBHBA	1 3021	mg/dL	<b>6,59</b>	5,67 - 7,51	μmol/L	<b>392</b> 337 - 447
	Enzymatic colorimetric test TOOS	13001	mg/dL	<b>6,47</b>	5,56 - 7,38	μmol/L	<b>385</b> 331 - 439
<b>DiaSys SensoStar / Super GL series</b>							
Glucose	Biosensor technology		mg/dL	<b>90,9</b>	76,4 - 105	mmol/L	<b>5,05</b> 4,24 - 5,85
Lactate (Lactic acid)	Biosensor technology		mg/dL	<b>13,5</b>	10,7 - 16,3	mmol/L	<b>1,50</b> 1,18 - 1,81



Constituent	Method	Unit	Assay value	Max. limits**	Unit	Assay value	Max. limits**
<b>Abbott Aeroset - Architect c series</b>							
Albumin	Bromocresol purple	g/dL	<b>3,80</b>	2,93 - 4,67	g/L	<b>38,0</b>	29,3 - 46,7
Alkaline phosphatase	Para-nitrophenyl Phosphate	U/L	<b>72,6</b>	54,5 - 90,8	µkat/L	<b>1,21</b>	0,91 - 1,51
ALT/GPT	NADH (without P-5'-P)	U/L	<b>16,5</b>	12,7 - 20,3	µkat/L	<b>0,28</b>	0,21 - 0,34
AST/GOT	NADH (without P-5'-P)	U/L	<b>24,8</b>	19,1 - 30,5	µkat/L	<b>0,41</b>	0,32 - 0,51
α-Amylase	CNPG3 Substrate	U/L	<b>85,0</b>	68,0 - 102	µkat/L	<b>1,42</b>	1,13 - 1,70
Bicarbonate (CO <sub>2</sub> )	PEP Carboxylase	mmol/L	<b>15,5</b>	12,4 - 18,6	mEq/L	<b>15,5</b>	12,4 - 18,6
Direct Bilirubin	Diazo Reaction	mg/dL	<b>0,50</b>	0,10 - 0,90	µmol/L	<b>8,55</b>	6,33 - 10,8
Bilirubin total	Diazonium Salt	mg/dL	<b>0,90</b>	0,50 - 1,30	µmol/L	<b>15,4</b>	11,4 - 19,4
BUN	Urease	mg/dL	<b>20,5</b>	16,0 - 25,0	mmol/L	<b>7,32</b>	5,71 - 8,93
Calcium	Arsenazo III	mg/dL	<b>9,83</b>	8,75 - 10,9	mmol/L	<b>2,45</b>	2,18 - 2,72
Chloride	Ion-selective electrode diluted (Indirect)	mmol/L	<b>104</b>	94,6 - 113	mg/dL	<b>369</b>	336 - 402
Cholesterol	Enzymatic	mg/dL	<b>140</b>	120 - 160	mmol/L	<b>3,62</b>	3,11 - 4,13
CK	NAC (N-Acetyl-L-Cysteine): Hexokinase/G-6-PDH (NADH)	U/L	<b>137</b>	110 - 164	µkat/L	<b>2,28</b>	1,83 - 2,74
Creatinine	Alkaline Picrate/modified Jaffe	mg/dL	<b>1,28</b>	1,00 - 1,56	µmol/L	<b>113,2</b>	88,3 - 138
γ-GT	L-Gamma-glutamyl-3-carboxy-4-nitroanilide Substrate	U/L	<b>29,5</b>	23,0 - 36,0	µkat/L	<b>0,49</b>	0,38 - 0,60
Glucose	Hexokinase/G-6-PDH	mg/dL	<b>96,3</b>	80,9 - 112	mmol/L	<b>5,35</b>	4,49 - 6,20
HDL-Cholesterol	Accelerator Selective Detergent	mg/dL	<b>43,0</b>	37,0 - 49,0	mmol/L	<b>1,11</b>	0,96 - 1,27
Iron	Ferene	µg/dL	<b>84,3</b>	72,5 - 96,1	µmol/L	<b>15,1</b>	13,0 - 17,2
LDH	Lactate to Pyruvate (NADH)	U/L	<b>140</b>	115 - 165	µkat/L	<b>2,33</b>	1,91 - 2,75
Lipase	Quinone Dye	U/L	<b>56,8</b>	45,4 - 68,2	µkat/L	<b>0,95</b>	0,76 - 1,14
Magnesium	Arsenazo	mg/dL	<b>2,14</b>	1,80 - 2,48	mmol/L	<b>0,88</b>	0,74 - 1,02
Phenytoin	Enzyme Immunoassay	µg/mL	<b>5,18</b>	3,98 - 6,37	µmol/L	<b>20,7</b>	15,9 - 25,4
Phosphorus	Phosphomolybdate	mg/dL	<b>3,50</b>	2,87 - 4,13	mmol/L	<b>1,13</b>	0,93 - 1,33
Potassium	Ion-selective electrode diluted (Indirect)	mmol/L	<b>4,20</b>	3,82 - 4,58	mg/dL	<b>16,4</b>	14,9 - 17,9
Sodium	Ion-selective electrode diluted (Indirect)	mmol/L	<b>142</b>	133 - 151	mg/dL	<b>326</b>	307 - 346
Total protein	Biuret	g/dL	<b>5,10</b>	4,54 - 5,66	g/L	<b>51,0</b>	45,4 - 56,6
Triglycerides	Glycerol Phosphate Oxidase	mg/dL	<b>86,8</b>	71,2 - 102	mmol/L	<b>0,98</b>	0,80 - 1,15
UIBC	Roche reagent (Ferene)	µg/dL	<b>178</b>	142 - 214	µmol/L	<b>31,9</b>	25,5 - 38,3
Urea	Urease	mg/dL	<b>43,9</b>	34,2 - 53,5	mmol/L	<b>7,30</b>	5,70 - 8,91
Uric Acid	Uricase	mg/dL	<b>6,45</b>	5,55 - 7,35	µmol/L	<b>384</b>	330 - 437



Constituent	Method	Unit	Assay value	Max. limits**	Unit	Assay value	Max. limits**
<b>Beckman Coulter-Access</b>							
Cortisol	Chemiluminescence	µg/dL	9,74	6,23 - 13,2	nmol/L	269	172 - 365
<b>Beckman Coulter-Immage</b>							
Apolipoprotein A	Nephelometry	mg/dL	109	87,2 - 131	g/L	1,09	0,87 - 1,31
Apolipoprotein B	Nephelometry	mg/dL	41,4	33,1 - 49,7	g/L	0,41	0,33 - 0,50
IgA	Nephelometry	mg/dL	150	114 - 186	g/L	1,50	1,14 - 1,86
IgG	Nephelometry	mg/dL	665	532 - 798	g/L	6,65	5,32 - 7,98
IgM	Nephelometry	mg/dL	79,7	57,4 - 102	g/L	0,80	0,57 - 1,02
Transferrin	Nephelometry	mg/dL	182	146 - 218	g/L	1,82	1,46 - 2,18
<b>Beckman Coulter-CX/LX/Synchron series</b>							
Acetaminophen	Immunoturbidimetric	µg/mL	14,8	11,8 - 17,8	µmol/L	97,9	78,3 - 117
Acid phosphatase ACP	Naphthylphosphate 37 °C	U/L	2,88	2,30 - 3,46	µkat/L	0,048	0,038 - 0,058
Albumin	Bromocresol purple	g/dL	3,53	2,72 - 4,34	g/L	35,3	27,2 - 43,4
Alkaline phosphatase	AMP buffer 37 °C	U/L	71,8	53,9 - 89,8	µkat/L	1,20	0,90 - 1,50
ALT/GPT	Henry, without pyridoxal phosphate 37 °C	U/L	32,9	25,3 - 40,5	µkat/L	0,55	0,42 - 0,67
AST/GOT	Henry, without pyridoxal phosphate 37 °C	U/L	32,3	24,9 - 39,7	µkat/L	0,54	0,41 - 0,66
α-Amylase	Enzymatic-DS 37 °C	U/L	88,4	70,7 - 106	µkat/L	1,47	1,18 - 1,77
Pancreatic amylase	Immunoinhibition EPS substrate 37 °C	U/L	40,3	32,2 - 48,4	µkat/L	0,67	0,54 - 0,81
Bicarbonate (CO <sub>2</sub> )	ISE	mmol/L	18,3	14,6 - 22,0	mEq/L	18,3	14,6 - 22,0
Direct Bilirubin	Diazonium Salt/Diazonium Ion with blank	mg/dL	0,50	0,10 - 0,90	µmol/L	8,55	6,33 - 10,8
Bilirubin total	Jendrassik-Grof	mg/dL	1,08	0,68 - 1,48	µmol/L	18,5	13,7 - 23,3
BUN	Urease/UV kinetic	mg/dL	20,1	15,7 - 24,5	mmol/L	7,17	5,60 - 8,75
	Conductivity/Urea	mg/dL	17,0	13,3 - 20,7	mmol/L	6,07	4,73 - 7,40
Calcium	Arsenazo III	mg/dL	9,51	8,46 - 10,6	mmol/L	2,37	2,11 - 2,63
Carbamazepine	Immunoturbidimetric	µg/mL	4,36	3,31 - 5,41	µmol/L	18,2	13,8 - 22,5
Chloride	ISE	mmol/L	102	92,8 - 111	mg/dL	362	330 - 395
Cholesterol	CHOD-PAP	mg/dL	129	111 - 147	mmol/L	3,34	2,87 - 3,80
Cholinesterase	Butyrylthiocholin 37 °C	U/L	4481	3674 - 5288	µkat/L	74,7	61,2 - 88,1
CK	Rosalki 37 °C	U/L	144	115 - 173	µkat/L	2,40	1,92 - 2,88
CK-MB	Immunoinhibition 37 °C	U/L	56,7	45,4 - 68,0	µkat/L	0,95	0,76 - 1,13
Creatinine	Modified Jaffe rate	mg/dL	1,21	0,94 - 1,48	µmol/L	107	83,4 - 130
Digoxin	Immunoturbidimetric	ng/mL	1,12	0,78 - 1,46	nmol/L	1,40	0,98 - 1,82
γ-GT	IFCC 37 °C	U/L	34,0	26,5 - 41,5	µkat/L	0,57	0,44 - 0,69
	Szasz 37 °C	U/L	30,3	23,6 - 37,0	µkat/L	0,51	0,39 - 0,62
Gentamicin	Immunoturbidimetric	µg/mL	2,18	1,74 - 2,62	µmol/L	4,60	3,68 - 5,52
Glucose	UV Hexokinase	mg/dL	100	84,0 - 116	mmol/L	5,55	4,66 - 6,44
HDL Cholesterol	Dextran Sulfate	mg/dL	48,1	41,4 - 54,8	mmol/L	1,24	1,07 - 1,42
IgA	Immunoturbidimetric	mg/dL	159	121 - 197	g/L	1,59	1,21 - 1,97
IgG	Immunoturbidimetric	mg/dL	706	565 - 847	g/L	7,06	5,65 - 8,47
IgM	Immunoturbidimetric	mg/dL	74,3	53,5 - 95,1	g/L	0,74	0,53 - 0,95
Iron	Ferrozine	µg/dL	89,4	76,9 - 102	µmol/L	16,0	13,8 - 18,3
Lactate (Lactic acid)	Enzymatic	mmol/L	2,03	1,60 - 2,45	mg/dL	18,2	14,4 - 22,1
LDH	Lactate to Pyruvate 37 °C	U/L	115	94,3 - 136	µkat/L	1,92	1,57 - 2,26
LDL Cholesterol	Homogeneous - liquid selective detergent	mg/dL	60,0	51,6 - 68,4	mmol/L	1,55	1,33 - 1,77
Lipase	Enzymatic rate 37 °C	U/L	46,4	37,1 - 55,7	µkat/L	0,77	0,62 - 0,93
Lithium	Thermo Trace reagent	mg/dL	0,78	0,67 - 0,89	mmol/L	1,12	0,96 - 1,28
Magnesium	Calmagite	mg/dL	2,17	1,82 - 2,52	mmol/L	0,89	0,75 - 1,04
Phenytoin	Immunoturbidimetric	µg/mL	5,09	3,92 - 6,26	µmol/L	20,3	15,7 - 25,0
Phosphorus	Phosphomolybdate UV	mg/dL	3,26	2,67 - 3,85	mmol/L	1,05	0,86 - 1,24
Potassium	Indirect ISE	mmol/L	4,32	3,93 - 4,71	mg/dL	16,8	15,3 - 18,4
Sodium	Indirect ISE	mmol/L	144	135 - 153	mg/dL	331	311 - 351
Total protein	Biuret	g/dL	5,28	4,70 - 5,86	g/L	52,8	47,0 - 58,6
Theophylline	Immunoturbidimetric	µg/mL	5,46	4,04 - 6,88	µmol/L	30,1	22,2 - 37,9
Tobramycin	Immunoturbidimetric	µg/mL	8,93	7,14 - 10,7	µmol/L	19,0	15,2 - 22,8
Transferrin	Immunoturbidimetric	mg/dL	178	142 - 214	g/L	1,78	1,42 - 2,14
Triglycerides	Enzymatic GPO Trinder	mg/dL	96,3	79,0 - 114	mmol/L	1,08	0,89 - 1,28
UIBC	Ferene	µg/dL	139	111 - 167	µmol/L	24,9	19,9 - 29,9
Urea	Urease/UV kinetic	mg/dL	43,0	33,6 - 52,5	mmol/L	7,16	5,59 - 8,74
	Conductivity/Urea	mg/dL	36,4	28,4 - 44,4	mmol/L	13,0	10,13 - 15,8
Uric Acid	Enzymatic Trinder	mg/dL	5,93	5,10 - 6,76	µmol/L	353	303 - 402



Constituent	Method	Unit	Assay value	Max. limits**	Unit	Assay value	Max. limits**
<b>Olympus-AU400/AU600</b>							
Albumin	Bromocresol green	g/dL	<b>3,52</b>	2,71 - 4,33	g/L	<b>35,2</b>	27,1 - 43,3
Aldolase	Enzymatic 37 °C	U/L	<b>1,10</b>	0,88 - 1,32	µkat/L	<b>0,018</b>	0,015 - 0,022
Alkaline phosphatase	IFCC 37 °C	U/L	<b>63,2</b>	47,4 - 79,0	µkat/L	<b>1,05</b>	0,79 - 1,32
ALT/GPT	IFCC, without pyridoxal phosphate 37 °C	U/L	<b>16,0</b>	12,3 - 19,7	µkat/L	<b>0,27</b>	0,21 - 0,33
AST/GOT	IFCC, without pyridoxal phosphate 37 °C	U/L	<b>21,6</b>	16,6 - 26,6	µkat/L	<b>0,36</b>	0,28 - 0,44
α-Amylase	CNPG3 37 °C	U/L	<b>65,3</b>	52,2 - 78,4	µkat/L	<b>1,09</b>	0,87 - 1,31
Apolipoprotein A	Turbidimetric	mg/dL	<b>100</b>	79,7 - 120	g/L	<b>0,996</b>	0,80 - 1,20
Apolipoprotein B	Turbidimetric	mg/dL	<b>53,5</b>	42,8 - 64,2	g/L	<b>0,54</b>	0,43 - 0,64
Bicarbonate (CO <sub>2</sub> )	UV Enzymatic	mmol/L	<b>17,3</b>	13,8 - 20,8	mEq/L	<b>17,3</b>	13,8 - 20,8
Direct Bilirubin	Jendrossik-Grof	mg/dL	<b>0,55</b>	0,15 - 0,95	µmol/L	<b>9,41</b>	6,96 - 11,9
Bilirubin total	Jendrossik-Grof	mg/dL	<b>1,00</b>	0,60 - 1,40	µmol/L	<b>17,1</b>	12,7 - 21,5
BUN	Urease/UV kinetic	mg/dL	<b>19,3</b>	15,1 - 23,5	mmol/L	<b>6,89</b>	5,37 - 8,41
Calcium	Arsenazo III	mg/dL	<b>9,58</b>	8,53 - 10,6	mmol/L	<b>2,39</b>	2,13 - 2,65
Carbamazepine	Syva Emit	µg/mL	<b>4,05</b>	3,08 - 5,02	µmol/L	<b>16,9</b>	12,8 - 20,9
Cholesterol	CHOD-PAP	mg/dL	<b>131</b>	113 - 149	mmol/L	<b>3,39</b>	2,91 - 3,86
Cholinesterase	Butyrylthiocholin 37 °C	U/L	<b>3784</b>	3103 - 4465	µkat/L	<b>63,1</b>	51,7 - 74,4
CK	IFCC 37 °C	U/L	<b>119</b>	95,2 - 143	µkat/L	<b>1,98</b>	1,59 - 2,38
Creatinine	Modified Jaffe	mg/dL	<b>1,20</b>	0,94 - 1,46	µmol/L	<b>106</b>	82,7 - 129,4
Digoxin	Syva Emit	ng/mL	<b>1,28</b>	0,90 - 1,66	nmol/L	<b>1,60</b>	1,12 - 2,08
γ-GT	IFCC 37 °C	U/L	<b>23,0</b>	17,9 - 28,1	µkat/L	<b>0,38</b>	0,30 - 0,47
Gentamicin	Syva Emit	µg/mL	<b>1,90</b>	1,52 - 2,28	µmol/L	<b>4,01</b>	3,21 - 4,81
Glucose	Hexokinase	mg/dL	<b>93,7</b>	78,7 - 109	mmol/L	<b>5,20</b>	4,37 - 6,03
HDL Cholesterol	Homogeneous - Selective detergent	mg/dL	<b>46,7</b>	40,2 - 53,2	mmol/L	<b>1,21</b>	1,04 - 1,38
IgA	Immunoturbidimetric	mg/dL	<b>128</b>	97,3 - 159	g/L	<b>1,28</b>	0,97 - 1,59
IgG	Immunoturbidimetric	mg/dL	<b>561</b>	449 - 673	g/L	<b>5,61</b>	4,49 - 6,73
IgM	Immunoturbidimetric	mg/dL	<b>56,3</b>	40,5 - 72,1	g/L	<b>0,56</b>	0,41 - 0,72
Iron	Tripyridyltriazine (TPZ)	µg/dL	<b>92,8</b>	79,8 - 106	µmol/L	<b>16,6</b>	14,3 - 18,9
Lactate (Lactic acid)	Enzymatic	mmol/L	<b>1,29</b>	1,02 - 1,56	mg/dL	<b>11,6</b>	9,17 - 14,0
LDH	IFCC 37 °C	U/L	<b>116</b>	95,1 - 137	µkat/L	<b>1,93</b>	1,59 - 2,28
LDL Cholesterol	Liquid selective detergent	mg/dL	<b>65,7</b>	56,5 - 74,9	mmol/L	<b>1,70</b>	1,46 - 1,94
Lipase	Enzymatic colorimetric 37 °C	U/L	<b>55,3</b>	44,2 - 66,4	µkat/L	<b>0,92</b>	0,74 - 1,11
Lithium	Thermo Trace reagent	mg/dL	<b>0,76</b>	0,65 - 0,86	mmol/L	<b>1,09</b>	0,94 - 1,24
Magnesium	Xylidyl blue	mg/dL	<b>1,92</b>	1,61 - 2,23	mmol/L	<b>0,79</b>	0,66 - 0,92
Phenytoin	Syva Emit	µg/mL	<b>4,43</b>	3,41 - 5,45	µmol/L	<b>17,7</b>	13,6 - 21,8
Phosphorus	Molybdate UV	mg/dL	<b>3,12</b>	2,56 - 3,68	mmol/L	<b>1,01</b>	0,83 - 1,19
Total protein	Biuret	g/dL	<b>5,10</b>	4,54 - 5,66	g/L	<b>51,0</b>	45,4 - 56,6
Theophylline	homogeneous immunoassay, Syva Emit	µg/mL	<b>5,12</b>	3,79 - 6,45	µmol/L	<b>28,2</b>	20,9 - 35,5
Transferrin	Immunoturbidimetric	mg/dL	<b>180</b>	144 - 216	g/L	<b>1,80</b>	1,44 - 2,16
Triglycerides	GPO/glycerokinase endpoint	mg/dL	<b>83,8</b>	68,7 - 98,9	mmol/L	<b>0,94</b>	0,77 - 1,11
UIBC	Nitroso-PSAP OSR61205	µg/dL	<b>140</b>	112 - 168	µmol/L	<b>25,1</b>	20,1 - 30,1
	Nitroso-PSAP OSR6124	µg/dL	<b>218</b>	174 - 262	µmol/L	<b>39,0</b>	31,2 - 46,8
Urea	GLDH/rate	mg/dL	<b>41,3</b>	32,2 - 50,4	mmol/L	<b>6,88</b>	5,36 - 8,39
Uric Acid	Uricase-PAP	mg/dL	<b>6,73</b>	5,79 - 7,67	µmol/L	<b>400</b>	344 - 456



Constituent	Method	Unit	Assay value	Max. limits**	Unit	Assay value	Max. limits**
<b>Roche-Cobas Integra</b>							
Acetaminophen	Enzymatic colorimetric	µg/mL	<b>11,8</b>	9,44 - 14,2	µmol/L	<b>78,1</b>	62,4 - 93,7
Albumin	Bromocresol green	g/dL	<b>3,50</b>	2,70 - 4,31	g/L	<b>35,0</b>	27,0 - 43,1
Alkaline phosphatase	AMP buffer 37 °C	U/L	<b>75,0</b>	56,3 - 93,8	µkat/L	<b>1,25</b>	0,94 - 1,56
ALT/GPT	without pyridoxal phosphate 37 °C	U/L	<b>19,5</b>	15,0 - 24,0	µkat/L	<b>0,33</b>	0,25 - 0,40
AST/GOT	with pyridoxal phosphate 37 °C	U/L	<b>20,5</b>	15,8 - 25,2	µkat/L	<b>0,34</b>	0,26 - 0,42
α-Amylase	EPS-G7 37 °C	U/L	<b>87,5</b>	70,0 - 105	µkat/L	<b>1,46</b>	1,17 - 1,75
Bicarbonate (CO <sub>2</sub> )	Enzymatic method with PEPC and MDH	mmol/L	<b>17,8</b>	14,2 - 21,4	mEq/L	<b>17,8</b>	14,24 - 21,4
Direct Bilirubin	Jendrassik-Grof	mg/dL	<b>0,35</b>	0,15 - 0,75	µmol/L	<b>5,99</b>	4,43 - 7,54
Bilirubin total	DCA	mg/dL	<b>0,83</b>	0,43 - 1,23	µmol/L	<b>14,2</b>	10,5 - 17,9
BUN	Urease/UV kinetic	mg/dL	<b>19,0</b>	14,8 - 23,2	mmol/L	<b>6,78</b>	5,29 - 8,27
Carbamazepine	FPIA	µg/mL	<b>5,14</b>	4,11 - 6,17	µmol/L	<b>21,4</b>	17,1 - 25,7
Calcium	CPC o-cresolphthalein complexone	mg/dL	<b>9,03</b>	8,04 - 10,0	mmol/L	<b>2,25</b>	2,01 - 2,50
Chloride	ISE indirect	mmol/L	<b>98,5</b>	89,6 - 107	mg/dL	<b>350</b>	318 - 381
Cholesterol	CHOD-PAP	mg/dL	<b>138</b>	119 - 157	mmol/L	<b>3,57</b>	3,07 - 4,07
CK	IFCC 37 °C	U/L	<b>131</b>	105 - 157	µkat/L	<b>2,18</b>	1,75 - 2,62
Creatinine	Jaffe rate	mg/dL	<b>1,25</b>	0,98 - 1,53	µmol/L	<b>111</b>	86,2 - 135
Digoxin	KIMS	ng/mL	<b>1,45</b>	1,02 - 1,89	nmol/L	<b>1,81</b>	1,27 - 2,36
γ-GT	Szasz 37 °C	U/L	<b>25,0</b>	19,5 - 30,5	µkat/L	<b>0,42</b>	0,33 - 0,51
Gentamicin	FPIA	µg/mL	<b>1,89</b>	1,51 - 2,27	µmol/L	<b>3,99</b>	3,19 - 4,79
Glucose	Hexokinase	mg/dL	<b>92,0</b>	77,3 - 107	µmol/L	<b>5,11</b>	4,29 - 5,92
HDL Cholesterol	Direct measure - PEG	mg/dL	<b>36,0</b>	31,0 - 41,0	mmol/L	<b>0,93</b>	0,80 - 1,06
Iron	Ferrozine, no deprotonization	µg/dL	<b>94,5</b>	81,3 - 108	µmol/L	<b>16,9</b>	14,6 - 19,3
Lactate (Lactic acid)	LOX PAP	mmol/L	<b>1,60</b>	1,26 - 1,94	mg/dL	<b>14,4</b>	11,4 - 17,4
LDH	IFCC 37 °C	U/L	<b>135</b>	111 - 159	µkat/L	<b>2,25</b>	1,85 - 2,66
Lipase	Colorimetric 37 °C	U/L	<b>48,5</b>	36,4 - 60,6	µkat/L	<b>0,81</b>	0,61 - 1,01
Magnesium	Chlorophosphonazo III	mg/dL	<b>2,05</b>	1,72 - 2,38	mmol/L	<b>0,84</b>	0,71 - 0,98
Phenytoin	FPIA	µg/mL	<b>5,06</b>	3,90 - 6,22	µmol/L	<b>20,2</b>	15,6 - 24,9
Phosphorus	Molybdate UV	mg/dL	<b>3,35</b>	2,75 - 3,95	mmol/L	<b>1,08</b>	0,89 - 1,28
Potassium	ISE indirect	mmol/L	<b>4,30</b>	3,91 - 4,69	mg/dL	<b>16,8</b>	15,3 - 18,3
Salicylate	Trinder colorimetric	mg/dL	<b>6,25</b>	5,00 - 7,50	mmol/L	<b>0,47</b>	0,37 - 0,56
Sodium	ISE indirect	mmol/L	<b>143</b>	134 - 152	mg/dL	<b>329</b>	309 - 349
Total protein	Biuret, with sample blank, endpoint	g/dL	<b>5,10</b>	4,54 - 5,66	g/L	<b>51,0</b>	45,4 - 56,6
Theophylline	FPIA	µg/mL	<b>5,70</b>	4,22 - 7,18	µmol/L	<b>31,4</b>	23,2 - 39,5
Tobramycin	FPIA	µg/mL	<b>7,16</b>	5,73 - 8,59	µmol/L	<b>15,2</b>	12,2 - 18,3
Transferrin	Immunoturbidimetric	mg/dL	<b>203</b>	162 - 244	g/L	<b>2,03</b>	1,62 - 2,44
Triglycerides	GPO-PAP with glycerol blank	mg/dL	<b>85,5</b>	70,1 - 101	mmol/L	<b>0,96</b>	0,79 - 1,14
UIBC	Ferrozine	µg/dL	<b>151</b>	121 - 181	µmol/L	<b>27,0</b>	21,6 - 32,4
Urea	Urease/GLDH rate	mg/dL	<b>40,7</b>	31,7 - 49,6	mmol/L	<b>6,77</b>	5,28 - 8,26
Uric Acid	Uricase-PAP	mg/dL	<b>6,51</b>	5,60 - 7,42	µmol/L	<b>387</b>	333 - 441



Constituent	Method	Unit	Assay value	Max. limits**	Unit	Assay value	Max. limits**
<b>Roche Hitachi Series</b>							
Acid phosphatase ACP	Naphthylphosphate 37 °C	U/L	<b>1,70</b>	1,36 - 2,04	µkat/L	<b>0,028</b>	0,023 - 0,034
Albumin	Bromocresol green	g/dL	<b>3,60</b>	2,77 - 4,43	g/L	<b>36,0</b>	27,7 - 44,3
Alkaline phosphatase	IFCC 37 °C	U/L	<b>76,9</b>	57,7 - 96,1	µkat/L	<b>1,28</b>	0,96 - 1,60
ALT/GPT	IFCC without pyridoxal phosphate 37 °C	U/L	<b>18,5</b>	14,2 - 22,8	µkat/L	<b>0,31</b>	0,24 - 0,38
AST/GOT	IFCC without pyridoxal phosphate 37 °C	U/L	<b>25,1</b>	19,3 - 30,9	µkat/L	<b>0,42</b>	0,32 - 0,51
α-Amylase	EPS-G7 37 °C	U/L	<b>84,8</b>	67,8 - 102	µkat/L	<b>1,41</b>	1,13 - 1,70
Pancreatic amylase	EPS-G7 37 °C	U/L	<b>44,5</b>	35,6 - 53,4	µkat/L	<b>0,74</b>	0,59 - 0,89
Bicarbonate (CO <sub>2</sub> )	Enzymatic method with PEPC and MDH	mmol/L	<b>17,5</b>	14,0 - 21,0	mEq/L	<b>17,5</b>	14,0 - 21,0
Direct Bilirubin	Jendrassik-Grof	mg/dL	<b>0,37</b>	0,17 - 0,77	µmol/L	<b>6,33</b>	4,68 - 7,97
Bilirubin total	DPD	mg/dL	<b>0,69</b>	0,29 - 1,09	µmol/L	<b>11,8</b>	8,7 - 14,9
BUN	Urease/UV kinetic	mg/dL	<b>19,1</b>	14,9 - 23,3	mmol/L	<b>6,82</b>	5,32 - 8,32
Calcium	CPC O-Cresolphthalein Complexone	mg/dL	<b>9,84</b>	8,76 - 10,9	mmol/L	<b>2,46</b>	2,19 - 2,73
Chloride	ISE	mmol/L	<b>99,5</b>	90,5 - 108	mg/dL	<b>353</b>	321 - 385
Cholesterol	CHOD-PAP	mg/dL	<b>135</b>	116 - 154	mmol/L	<b>3,49</b>	3,00 - 3,98
Cholinesterase	Acetylthiocholine 37 °C	U/L	<b>2098</b>	1720 - 2476	µkat/L	<b>35,0</b>	28,7 - 41,3
CK	IFCC 37 °C	U/L	<b>130</b>	104 - 156	µkat/L	<b>2,17</b>	1,73 - 2,60
Creatinine	Jaffe rate	mg/dL	<b>1,23</b>	0,96 - 1,50	µmol/L	<b>109</b>	84,8 - 133
γ-GT	Szasz 37 °C	U/L	<b>25,9</b>	20,2 - 31,6	µkat/L	<b>0,43</b>	0,34 - 0,53
Gentamicin	EIA Cedia	µg/mL	<b>1,90</b>	1,43 - 2,38	µmol/L	<b>4,01</b>	3,01 - 5,01
GLDH	DGKC 1970, 37 °C	U/L	<b>11,9</b>	9,40 - 14,4	µkat/L	<b>0,20</b>	0,16 - 0,24
Glucose	Hexokinase	mg/dL	<b>91,9</b>	77,2 - 107	mmol/L	<b>5,10</b>	4,29 - 5,92
α-HBDH	DGKC 37 °C	U/L	<b>132</b>	106 - 158	µkat/L	<b>2,20</b>	1,76 - 2,64
IgA	Immunoturbidimetric	mg/dL	<b>141</b>	107 - 175	g/L	<b>1,41</b>	1,07 - 1,75
IgG	Immunoturbidimetric	mg/dL	<b>638</b>	510 - 766	g/L	<b>6,38</b>	5,10 - 7,66
IgM	Immunoturbidimetric	mg/dL	<b>65,1</b>	46,9 - 83,3	g/L	<b>0,65</b>	0,47 - 0,83
Iron	Ferrozine	µg/dL	<b>89,3</b>	76,8 - 102	µmol/L	<b>16,0</b>	13,8 - 18,2
Lactate (Lactic acid)	LOX PAP	mmol/L	<b>1,58</b>	1,25 - 1,91	mg/dL	<b>14,2</b>	11,2 - 17,2
LDH	IFCC 37°C	U/L	<b>137</b>	112 - 162	µkat/L	<b>2,28</b>	1,87 - 2,69
Lipase	Colorimetric 37 °C	U/L	<b>46,5</b>	37,2 - 55,8	µkat/L	<b>0,78</b>	0,62 - 0,93
Lithium	ISE	mmol/L	<b>1,18</b>	1,01 - 1,35	mg/dL	<b>0,82</b>	0,70 - 0,93
Magnesium	Xylidyl blue	mg/dL	<b>1,77</b>	1,49 - 2,06	mmol/L	<b>0,73</b>	0,61 - 0,85
Phenytoin	Cedia	µg/mL	<b>4,90</b>	3,77 - 6,03	µmol/L	<b>19,6</b>	15,1 - 24,1
Phosphorus	Molybdate UV	mg/dL	<b>3,23</b>	2,65 - 3,81	mmol/L	<b>1,04</b>	0,86 - 1,23
Potassium	ISE	mmol/L	<b>4,24</b>	3,86 - 4,62	mg/dL	<b>16,5</b>	15,0 - 18,0
Salicylate	Trinder colorimetric GDS	mg/dL	<b>6,11</b>	4,89 - 7,33	mmol/L	<b>0,46</b>	0,37 - 0,55
Sodium	ISE	mmol/L	<b>143</b>	134 - 152	mg/dL	<b>329</b>	309 - 349
Total protein	Biuret with sample blank	g/dL	<b>5,13</b>	4,57 - 5,69	g/L	<b>51,3</b>	45,7 - 56,9
Triglycerides	GPO-PAP	mg/dL	<b>84,3</b>	69,1 - 99,5	mmol/L	<b>0,95</b>	0,78 - 1,12
Urea	Urease UV	mg/dL	<b>40,9</b>	31,9 - 49,9	mmol/L	<b>6,81</b>	5,31 - 8,30
Uric Acid	Uricase-PAP	mg/dL	<b>6,35</b>	5,46 - 7,24	µmol/L	<b>378</b>	325 - 431



Constituent	Method	Unit	Assay value	Max. limits**	Unit	Assay value	Max. limits**
<b>Siemens Advia series</b>							
Acetaminophen	Enzymatic	µg/mL	16,7	13,4 - 20,0	µmol/L	110,5	88,4 - 133
Albumin	Bromocresol green	g/dL	3,28	2,53 - 4,03	g/L	32,8	25,3 - 40,3
Alkaline phosphatase	PNPP, AMP buffer 37 °C	U/L	77,3	58,0 - 96,6	µkat/L	1,29	0,97 - 1,61
ALT/GPT	IFCC 37 °C	U/L	22,0	16,9 - 27,1	µkat/L	0,37	0,28 - 0,45
AST/GOT	IFCC 37 °C	U/L	28,8	22,2 - 35,4	µkat/L	0,48	0,37 - 0,59
α-Amylase	G7 PNP 37 °C	U/L	84,7	67,8 - 102	µkat/L	1,41	1,13 - 1,69
Apolipoprotein A	PEG enhanced Immunoturbidimetric	mg/dL	124	99,2 - 149	g/L	1,24	0,99 - 1,49
Apolipoprotein B	PEG enhanced Immunoturbidimetric	mg/dL	54,7	43,8 - 65,6	g/L	0,55	0,44 - 0,66
Bicarbonate (CO <sub>2</sub> )	Enzymatic	mmol/L	16,5	13,2 - 19,8	mEq/L	16,5	13,2 - 19,8
Direct Bilirubin	Jendrassik-Grof	mg/dL	0,50	0,10 - 0,90	µmol/L	8,55	6,33 - 10,8
Bilirubin total	Jendrassik-Grof	mg/dL	0,90	0,50 - 1,30	µmol/L	15,4	11,4 - 19,4
BUN	Urease	mg/dL	19,2	15,0 - 23,4	mmol/L	6,85	5,35 - 8,36
Carbamazepine	Chemiluminescence	µg/mL	4,72	3,59 - 5,85	µmol/L	19,7	14,95 - 24,4
Calcium	O-Cresolphthalein complexone	mg/dL	9,90	8,81 - 11,0	mmol/L	2,47	2,20 - 2,74
Chloride	ISE Indirect	mmol/L	100	91,0 - 109	mg/dL	355	323 - 387
Cholesterol	Enzymatic (CHOD/Trinder) Endpoint reaction	mg/dL	136	117 - 155	mmol/L	3,52	3,02 - 4,01
CK	IFCC, NAC Activated 37 °C	U/L	135	108 - 162	µkat/L	2,25	1,80 - 2,70
CK-MB	Chemiluminescence	ng/mL	43,8	35,0 - 52,6	µg/L	43,8	35,0 - 52,6
Creatinine	Jaffe (Alkaline Picurate-Kinetic)	mg/dL	1,13	0,88 - 1,38	µmol/L	99,9	77,9 - 121,9
Digoxin	Chemiluminescence	ng/mL	1,42	0,99 - 1,85	nmol/L	1,78	1,24 - 2,31
γ-GT	IFCC 37 °C	U/L	24,0	18,7 - 29,3	µkat/L	0,40	0,31 - 0,49
Gentamicin	Chemiluminescence	µg/mL	1,68	1,34 - 2,02	µmol/L	3,55	2,84 - 4,26
Glucose	Hexokinase	mg/dL	94,3	79,2 - 109	mmol/L	5,23	4,40 - 6,07
HDL Cholesterol	Elimination/Catalase	mg/dL	37,8	32,5 - 43,1	mmol/L	0,98	0,84 - 1,11
IgA	Immunoturbidimetric	mg/dL	165	125 - 205	g/L	1,65	1,25 - 2,05
IgG	Immunoturbidimetric	mg/dL	614	491 - 737	g/L	6,14	4,91 - 7,37
IgM	Immunoturbidimetric	mg/dL	93,2	67,1 - 119	g/L	0,93	0,67 - 1,19
Iron	Ferrozine	µg/dL	89,5	77,0 - 102	µmol/L	16,0	13,8 - 18,3
LDH	IFCC, DGKC 1994, Lactate to Pyruvate 37 °C	U/L	139	114 - 164	µkat/L	2,32	1,90 - 2,73
LDL Cholesterol	Elimination	mg/dL	63,8	54,9 - 72,7	mmol/L	1,65	1,42 - 1,88
Lipase	Colorimetric 37 °C	U/L	66,8	50,1 - 83,5	µkat/L	1,11	0,84 - 1,39
Magnesium	Xylidyl blue	mg/dL	1,73	1,45 - 2,01	mmol/L	0,71	0,60 - 0,83
Phenytoin	Chemiluminescence	µg/mL	5,34	4,11 - 6,57	µmol/L	21,3	16,4 - 26,3
Phosphorus	Molybdate UV	mg/dL	3,23	2,65 - 3,81	mmol/L	1,04	0,86 - 1,23
Potassium	ISE Indirect	mg/dL	16,5	15,0 - 18,0	mmol/L	4,22	3,84 - 4,60
Salicylate	Enzymatic	mg/dL	5,87	4,70 - 7,04	mmol/L	0,44	0,35 - 0,53
Sodium	ISE Indirect	mg/dL	324	304 - 344	mmol/L	141	132 - 150
Total protein	Biuret	g/dL	5,10	4,54 - 5,66	g/L	51,0	45,4 - 56,6
Theophylline	Chemiluminescence	µg/mL	6,11	4,52 - 7,70	µmol/L	33,6	24,9 - 42,4
TSH	Chemiluminescence	µIU/mL	1,25	0,90 - 1,60	mU/L	1,25	0,90 - 1,60
TIBC	Calculated-UIBC based	µg/dL	249	199 - 299	µmol/L	44,6	35,7 - 53,5
Triglycerides	GPO, Trinder	mg/dL	82,5	67,7 - 97,4	mmol/L	0,93	0,76 - 1,10
Urea	Urease UV kinetic	mg/dL	41,1	32,0 - 50,1	mmol/L	6,84	5,34 - 8,35
Uric Acid	Uricase	mg/dL	6,48	5,57 - 7,39	µmol/L	385	331 - 439

**Short forms:**

DGKC - Deutsche Gesellschaft für Klinische Chemie  
IFCC - International Federation of Clinical Chemistry  
NVKC - Nederlandse Vereniging voor Klinische Chemie  
SCE - Scandinavian Committee of Enzymes  
SEQC - Sociedad Espanola de Quimica Clinica  
SFBC - Société Française de Biologie Clinique

**Notes:**

\* Data not available at the time of printing. Please inquire.

Daten zum Zeitpunkt des Drucks nicht verfügbar. Bitte nachfragen.

Données non disponibles à la date d'impression. Prière de se renseigner.

No se disponía de información en el momento en que se imprimió este prospecto. Consulte cualquier duda.

Data finns inte tillgängliga vid tidpunkten för tryckning. Var god kontakte DiaSys.

Dati non disponibili al momento della stampa. Richiedere informazioni.

Os dados não se encontravam disponíveis na altura da impressão do folheto. Por favor, efectue os devidos inqueritos.

Ingen tilgjengelige data da denne indlægsseddel gik i trykken. Oplysning fas ved henvendelse.

\*\* Ranges of acceptance were calculated as assigned value  $\pm$  the maximum tolerable deviation of a single value according to the Guidelines of the German Federal Medical Council from 2003

Die Akzeptanzbereiche wurden nach den Richtlinien der Bundesärztekammer von 2003 als Sollwert  $\pm$  die maximal zulässige Abweichung des Einzelwertes berechnet

L'intervalle de confiance a été calculée comme la valeur des méthodes de référence +/- le maximum de l'erreur de mesure admissible selon les recommandations du Comité Médical Fédéral d'Allemagne de 2003

Los rangos de tolerancia han sido calculados como valor de ensayo  $\pm$  variación máxima tolerable del valor independiente, según las directrices de la Cámara Federal de los Médicos Alemanes de 2003

Acceptansområdet beräknades enligt riktlinjer av Bundesärztekammer från 2003 till att vara riktvärdet +/- den maximalt tillåtna avvikelser av ett enskilda värde

Gli ambiti di accettazione sono stati calcolati sulla base del valore del metodo di riferimento  $\pm$  tre volte l'errore tollerabile della misura secondo le linee guida del "German Federal Medical Council" dal 2003

As faixas de aceitação foram calculadas com valores assinalados  $\pm$  três vezes a tolerância máxima de um único valor de acordo com o Guia do Conselho Federal de Medicina da Alemanha de 2003

(Richtlinie der Bundesärztekammer zur Qualitätssicherung quantitativer laboratoriums-medizinischer Untersuchungen. Deutsches Ärzteblatt 2003; 100:A 3335-38)

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