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REF 13951 **LOT 0003**

Link for latest version of target value sheet:

https://www.human.de/target-value-sheets/

Target Values / Sollwerte / Valores Meta/ Valeurs Souhaitées

	Method Methode Método Méthode * 37°C	SI Units SI Einheiten Unitades SI Unités SI	Target Sollwert Valor meta Valeur souhaitée	Range Bereich Rango Marge	Units Einheiten Unitades Unités	Target Sollwert Valor meta Valeur souhaitée	Range Bereich Rango Marge
HUMAN							
alpha-Amylase	2-chloro-4-nitrophenyl-maltotrioside (CNPG3) *	µkat/l	3.77	3.01 - 4.52	U/l	226	181 - 271
Acid Phosphatase total	α-Naphtylphosphate *	µkat/l	0.09	0.06 - 0.12	U/l	5.36	3.59 - 7.13
Alanine Aminotransferase (ALAT, GPT)	IFCC mod. *	µkat/l	0.55	0.42 - 0.67	U/l	32.8	25.3 - 40.3
Albumin	Bromocresol Green	g/l	38.0	29.3 - 46.7	g/dl	3.80	2.93 - 4.67
	CRM 470 standardised	g/l	31.2	24.0 - 38.4	g/dl	3.12	2.40 - 3.84
Alkaline Phosphatase	DGKC, DEA Buffer *	µkat/l	5.55	4.16 - 6.94	U/l	333	250 - 416
Alkaline Phosphatase	IFCC, AMP Buffer *	µkat/l	3.97	2.98 - 4.96	U/l	238	179 - 298
Aspartate Aminotransferase (ASAT, GOT)	IFCC mod. without pyridoxal phosphate *	µkat/l	0.59	0.45 - 0.72	U/l	35.3	27.2 - 43.4
auto-Bilirubin direct	DPD	µmol/l	20.9	15.4 - 26.3	mg/dl	1.22	0.90 - 1.54
auto-Bilirubin total	DPD	µmol/l	29.6	21.9 - 37.3	mg/dl	1.73	1.28 - 2.18
Bilirubin direct	Jendrassik-Gróf	µmol/l	20.7	15.3 - 26.1	mg/dl	1.21	0.90 - 1.52
Bilirubin total	Jendrassik-Gróf	µmol/l	25.0	18.5 - 31.5	mg/dl	1.46	1.08 - 1.84
Bilirubin total	2,4 - Dichloroaniline DCA	µmol/l	27.2	20.1 - 34.3	mg/dl	1.59	1.18 - 2.00
Calcium	o-Cresolphthalein complexone	mmol/l	2.15	1.91 - 2.38	mg/dl	8.59	7.65 - 9.53
Chloride	ISE (direct)	mmol/l	95.6	87.0 - 104	mg/dl	339	308 - 369
Chloride	TPTZ	mmol/l	97.6	88.8 - 106	mg/dl	346	315 - 377
Cholesterol total	CHOD-PAP	mmol/l	4.91	4.23 - 5.60	mg/dl	190	163 - 217
Cholinesterase	Butyrylthiocholine *	µkat/l	81.8	67.1 - 96.6	U/l	4910	4026 - 5794
Creatine Kinase CK NAC activated	DGKC optimised *	µkat/l	2.57	2.05 - 3.08	U/l	154	123 - 185
Creatine Kinase CK NAC liquiUV	IFCC mod.*	µkat/l	2.43	1.95 - 2.92	U/l	146	117 - 175
Creatinine	Enzymatic colorimetric test *	µmol/l	95.5	74.5 - 116	mg/dl	1.08	0.84 - 1.32
Creatinine	Jaffé, kinetic, without deproteinisation	µmol/l	113	88.3 - 138	mg/dl	1.28	1.00 - 1.56
auto-Creatinine	Jaffé, kinetic, without deproteinisation	µmol/l	103	80.7 - 126	mg/dl	1.17	0.91 - 1.43
gamma-Glutamyl Transferase (GGT)	IFCC *	µkat/l	0.55	0.43 - 0.67	U/l	32.8	25.6 - 40.0
Glucose liquiUV	Hexokinase /G6P-DH	mmol/l	4.90	4.12 - 5.68	mg/dl	88.3	74.2 - 102
Glucose liquicolor	GOD-PAP	mmol/l	4.90	4.12 - 5.68	mg/dl	88.3	74.2 - 102
HDL-Cholesterol	CHOD-PAP after precipitation	mmol/l	1.20	0.96 - 1.44	mg/dl	46.5	37.2 - 55.8
HDL-Cholesterol liquicolor	Direct enzymatic test	mmol/l	1.92	1.54 - 2.30	mg/dl	74.2	59.4 - 89.0
Iron	CAB	µmol/l	15.2	13.1 - 17.3	µg/dl	85.0	73.1 - 96.9
Iron	TPTZ	µmol/l	15.1	13.0 - 17.2	µg/dl	84.5	72.7 - 96.3
Lactate Dehydrogenase (LDH)	SCE mod. Pyruvate - Lactate *	µkat/l	7.07	5.80 - 8.34	U/l	424	348 - 500
LDL-Cholesterol	Direct enzymatic test	mmol/l	2.12	1.69 - 2.54	mg/dl	81.8	65.4 - 98.2
Lipase	Enzymatic colorimetric test *	µkat/l	0.74	0.59 - 0.88	U/l	44.1	35.3 - 52.9
Magnesium	Xylidyl blue	mmol/l	0.96	0.80 - 1.11	mg/dl	2.33	1.96 - 2.70
Pancreas Amylase	EPS-G7 *	µkat/l	1.08	0.86 - 1.29	U/l	64.5	51.6 - 77.4
Phosphorus	Phosphomolybdate	mmol/l	1.22	1.00 - 1.44	mg/dl	3.77	3.09 - 4.45
Potassium	ISE (direct)	mmol/l	3.94	3.59 - 4.29	mval/l	3.94	3.59 - 4.29
Potassium liquirapid	Tetraphenylboron	mmol/l	3.35	3.05 - 3.65	mval/l	3.35	3.05 - 3.65
Potassium liquiUV	Enzymatic UV test	mmol/l	4.07	3.46 - 4.68	mval/l	4.07	3.46 - 4.68
Protein total	Biuret	g/l	63.6	56.6 - 70.6	g/dl	6.36	5.66 - 7.06
Sodium	ISE (direct)	mmol/l	134	126 - 142	mval/l	134	126 - 142
Sodium rapid	Mg-uranylacetate	mmol/l	117	110 - 124	mval/l	117	110 - 124
Sodium liquicolor	Enzymatic colorimetric test	mmol/l	132	112 - 152	mval/l	132	112 - 152
TIBC Total Iron Binding Capacity	Aluminum oxide adsorption CAB	µmol/l	46.4	37.1 - 55.6	µg/dl	259	207 - 311
TIBC Total Iron Binding Capacity	Aluminum oxide adsorption TPTZ	µmol/l	53.5	42.8 - 64.2	µg/dl	299	239 - 359
Triglycerides	GPO-PAP	mmol/l	1.92	1.57 - 2.26	mg/dl	168	138 - 198
Urea liquicolor	mod. Berthelot reaction	mmol/l	5.44	4.25 - 6.64	mg/dl	32.7	25.5 - 39.9
Urea liquiUV	Urease/GLDH	mmol/l	5.51	4.30 - 6.72	mg/dl	33.1	25.8 - 40.4
Uric Acid	Uricase-PAP	µmol/l	295	254 - 336	mg/dl	4.96	4.27 - 5.65

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CS-SE-0003
INF 1395102
06-2018-09

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Target Values / Sollwerte / Valores Meta/ Valeurs Souhaitées

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Uric Acid liquicolor plus	Uricase-PAP	µmol/l	267	230 - 304	mg/dl	4.49	3.86 - 5.12
Uric Acid liquicolor plus	working reagent	µmol/l	317	273 - 361	mg/dl	5.33	4.58 - 6.08
Other Manufacturers							
Acid Phosphatase	IFCC *	µkat/l	0.06	0.05 - 0.08	U/l	3.84	2.88 - 4.80
alpha-Amylase	EPS-G7, IFCC *	µkat/l	1.40	1.12 - 1.68	U/l	84	67.2 - 101
Alanine Aminotransferase (ALAT, GPT)	IFCC *	µkat/l	0.49	0.38 - 0.60	U/l	29.5	22.7 - 36.3
Albumin	Bromocresol Green CRM470 standardised	g/l	41.2	31.7 - 50.7	g/dl	4.12	3.17 - 5.07
Alkaline Phosphatase	IFCC *	µkat/l	2.91	2.18 - 3.63	U/l	167	125 - 209
Aspartate Aminotransferase (AST, GOT)	IFCC *	µkat/l	0.53	0.41 - 0.66	U/l	32.1	24.7 - 39.5
Bilirubin direct	Jendrassik-Gróf	µmol/l	24.0	17.7 - 30.2	mg/dl	1.40	1.04 - 1.77
Bilirubin total	Jendrassik-Gróf	µmol/l	26.1	19.3 - 32.8	mg/dl	1.52	1.13 - 1.92
Calcium	o-Cresolphthalein	mmol/l	2.18	1.94 - 2.42	mg/dl	8.73	7.77 - 9.69
Chloride	ISE	mmol/l	90.9	82.7 - 99.0	mg/dl	322	293 - 351
Cholesterol total	CHOD-PAP	mmol/l	4.64	3.99 - 5.29	mg/dl	180	154 - 205
Copper	AAS	µmol/l	1.34	1.08 - 1.61	µg/dl	85.4	68.3 - 102
Creatine Kinase	NAC activated, IFCC *	µkat/l	2.34	1.87 - 2.81	U/l	141	112 - 169
Creatinine	Jaffé kinetic	µmol/l	103	80.3 - 126	mg/dl	1.17	0.91 - 1.42
gamma-Glutamyl Transferase (GGT)	γ-Glutamyl-4-nitroanilide *	µkat/l	0.54	0.42 - 0.66	U/l	32.7	25.5 - 39.9
Glucose	Hexokinase /G6P-DH	mmol/l	4.78	4.02 - 5.55	mg/dl	86.2	72.4 - 100
HDL-Cholesterol	Direct enzymatic test	mmol/l	1.54	1.23 - 1.85	mg/dl	59.7	47.7 - 71.6
Iron	Ferrozine	µmol/l	15.0	12.9 - 17.1	µg/dl	83.8	72.1 - 95.5
Lactate Dehydrogenase (LDH)	IFCC Lactate - Pyruvate *	µkat/l	3.13	2.57 - 3.69	U/l	188	154 - 221
LDL-Cholesterol	Direct enzymatic test	mmol/l	2.31	1.85 - 2.78	mg/dl	89.5	71.6 - 107
Lipase	Enzymatic colorimetric test *	µkat/l	0.68	0.54 - 0.82	U/l	40.8	32.6 - 49.0
Lithium	ISE	mmol/l	0.91	0.79 - 1.04	mval/l	0.91	0.79 - 1.04
Magnesium	Xylidyl blue	mmol/l	0.91	0.77 - 1.06	mg/dl	2.22	1.87 - 2.58
Pancreas Amylase	EPS *	µkat/l	1.10	0.88 - 1.32	U/l	66.0	52.8 - 79.2
Phosphorus	Molybdate UV	mmol/l	1.13	0.92 - 1.33	mg/dl	3.49	2.86 - 4.12
Potassium	ISE (indirect)	mmol/l	3.76	3.42 - 4.09	mval/l	3.76	3.42 - 4.09
Protein total	Biuret	g/l	50.4	44.8 - 55.9	g/dl	5.04	4.48 - 5.59
Sodium	ISE (indirect)	mmol/l	127	119 - 135	mval/l	127	119 - 135
Triglycerides	GPO-PAP	mmol/l	1.76	1.44 - 2.08	mg/dl	155	127 - 182
Urea	Urease	mmol/l	5.12	3.99 - 6.24	mg/dl	30.7	24.0 - 37.5
Uric Acid	Enzymatic colorimetric test	µmol/l	262	225 - 298	mg/dl	4.40	3.78 - 5.01
Zinc	AAS	µmol/l	12.5	10.0 - 15.0	µg/dl	81.7	65.4 - 98.1

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CS-SE-0003
INF 1395102
06-2018-09

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REF 13951 LOT 0003

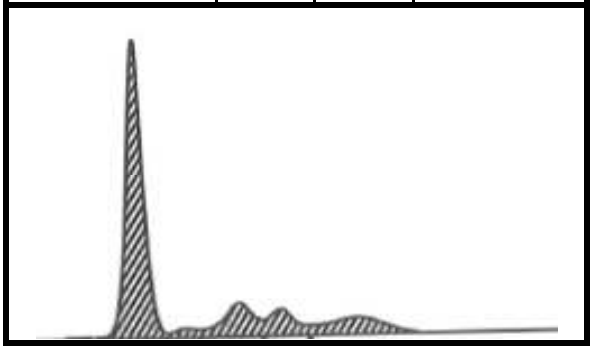
Target Values / Sollwerte / Valores Meta/ Valeurs Souhaitées

	Units Einheiten Unitades Unités	Target Sollwert Valor meta Valeur souhaitée	Range Bereich Rango Marge
Human Turbidimetry			
Apolipoprotein A1	mg/dl	103	82.4 - 124
Apolipoprotein B	mg/dl	62.0	49.6 - 74.4
IgA	mg/dl	172	131 - 213
IgA direct	mg/dl	147	112 - 182
IgG	mg/dl	809	647 - 971
IgG direct	mg/dl	762	610 - 914
IgM	mg/dl	85.4	61.5 - 109
IgM direct	mg/dl	62.3	44.9 - 79.7
Lipoprotein (a)	mg/dl	13.9	11.12 - 16.7

Roche Diagnostics Turbidimetry			
Apolipoprotein A1	mg/dl	97.5	78.0 - 117
Apolipoprotein B	mg/dl	58.3	46.6 - 69.9
Haptoglobin	mg/dl	101	77.4 - 124
IgA	mg/dl	142	108 - 175
IgG	mg/dl	765	612 - 918
IgM	mg/dl	67.0	48.2 - 85.8
Lipoprototein(a)	mg/dl	9.75	7.80 - 11.7

Beckman Coulter Turbidimetry			
Apolipoprotein A1	mg/dl	101	80.8 - 121
Apolipoprotein B	mg/dl	58.0	46.4 - 69.6
Haptoglobin	mg/dl	97.0	74.7 - 119
IgA	mg/dl	158	120 - 196
IgG	mg/dl	771	617 - 925
IgM	mg/dl	64.0	46.1 - 81.9
Lipoprototein(a)	mg/dl	13.0	10.4 - 15.6

Protein Fractions			
Electrophoresis with cellulose foil Ponceau S dye			
Albumin	%	62.5	50.0 - 74.9
α1-Globulin	%	2.50	1.75 - 3.25
α2-Globulin	%	12.8	10.2 - 15.3
β-Globulin	%	10.1	8.08 - 12.1
γ-Globulin	%	12.2	8.30 - 16.1



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