

Target Values / Sollwerte / Valores Asignados/ Valeurs Cibles

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

Reagent name / Reagenzbezeichnung / Parámetro / Paramètre Method / Methode / Método/ Méthode	applicable for / anwendbar für / applicable por / applicable pour	SI Unit SI Einheit Unidad SI Unité SI	Mean Mittelwert Media Moyenne	Range Bereich Rango Plage de valeurs	Unit Einheit Unidad Unité	Mean Mittelwert Media Moyenne	Range Bereich Rango Plage de valeurs
HUMAN reagent kits							
ACID PHOSPHATASE a-Naphthylphosphate, Hillmann mod., 37°C	HumaStar analyzer, Humalyzer photometer	µkat/l	0.28	0.24 - 0.31	U/l	16.5	14.5 - 18.5
ALBUMIN Iquicolor Bromcresol green	HumaStar analyzer	g/l	54.3	49.4 - 59.1	g/dl	5.43	4.94 - 5.91
	Humalyzer photometer	g/l	50.2	45.1 - 55.2	g/dl	5.02	4.51 - 5.52
ALKALINE PHOSPHATASE Iquicolor AMP buffer, 37°C, IFCC	HumaStar analyzer	µkat/l	4.82	4.28 - 5.33	U/l	289	257 - 320
	Humalyzer photometer	µkat/l	4.68	4.15 - 5.22	U/l	281	249 - 313
ALKALINE PHOSPHATASE opt. Iquicolor DEA Buffer, 37°C, GSCC/DGKC	HumaStar analyzer	µkat/l	6.70	6.18 - 7.22	U/l	402	371 - 433
	Humalyzer photometer	µkat/l	6.85	5.83 - 7.87	U/l	411	350 - 472
	Humalyzer 4000, Setting 004H	µkat/l	5.70	5.00 - 6.40	U/l	342	300 - 384
alpha-AMYLASE Iquicolor CNPG3, 37°C, IFCC	Humalyzer photometer	µkat/l	4.53	4.07 - 5.02	U/l	272	244 - 301
	HumaStar analyzer	µkat/l	4.70	4.25 - 5.13	U/l	282	255 - 308
APOLIPOPROTEIN A1 Immunoturbidimetry	HumaStar analyzer	g/l	1.65	1.25 - 2.06	mg/dl	165	125 - 206
	Humalyzer photometer	g/l	1.95	1.74 - 2.16	mg/dl	195	174 - 216
APOLIPOPROTEIN B Immunoturbidimetry	HumaStar analyzer, Humalyzer photometer	g/l	1.35	0.95 - 1.74	mg/dl	135	95.3 - 174
auto-BILIRUBIN-D Iquicolor DPD method	HumaStar analyzer	µmol/l	40.7	38.8 - 42.6	mg/dl	2.38	2.27 - 2.49
	Humalyzer 4000	µmol/l	40.2	26.7 - 53.5	mg/dl	2.35	1.56 - 3.13
auto-BILIRUBIN-T Iquicolor DPD method	Humalyzer photometer 4000	µmol/l	66.0	61.4 - 70.6	mg/dl	3.86	3.59 - 4.13
	HumaStar analyzer	µmol/l	68.4	63.3 - 73.4	mg/dl	4.00	3.70 - 4.29
BILIRUBIN Iquicolor DCA method	Humalyzer photometer	µmol/l	62.3	50.8 - 73.7	mg/dl	3.64	2.97 - 4.31
BILIRUBIN DIRECT/TOTAL Iquicolor Determination of Bilirubin total Jendrassik-Gróf	Humalyzer photometer w/o Humalyzer 4000	µmol/l	65.3	55.2 - 75.4	mg/dl	3.82	3.23 - 4.41
	Humalyzer 4000	µmol/l	60.5	54.0 - 67.0	mg/dl	3.54	3.16 - 3.92
BILIRUBIN DIRECT/TOTAL Iquicolor Determination of Bilirubin direct Jendrassik-Gróf	Humalyzer photometer	µmol/l	43.3	34.0 - 52.3	mg/dl	2.53	1.99 - 3.06
CALCIUM Iquicolor Ortho-cresolphthalein	HumaStar analyzer	mmol/l	3.03	2.85 - 3.23	mg/dl	12.1	11.4 - 12.9
	Humalyzer photometer	mmol/l	3.10	2.95 - 3.23	mg/dl	12.4	11.8 - 12.9
Chloride ISE direct	HumaStar 600, HumaLyte	mmol/l	116	107 - 124	mg/dl	411	379 - 440
CHLORIDE Iquicolor TPTZ method	HumaStar analyzer	mmol/l	119	108 - 129	mg/dl	422	383 - 457
	Humalyzer photometer Primus only	mmol/l	121	105 - 137	mg/dl	429	372 - 486
	Humalyzer photometer 4000 only	mmol/l	131	116 - 146	mg/dl	464	411 - 518
CHOLESTEROL Iquicolor CHOD-PAP	HumaStar analyzer	mmol/l	8.12	7.47 - 8.77	mg/dl	314	289 - 339
	Humalyzer photometer	mmol/l	7.86	7.45 - 8.25	mg/dl	304	288 - 319
CHOLINESTERASE Iquicolor Butyrylthiocholine, 37°C, GSCC/DGKC	HumaStar analyzer	µkat/l	131	123 - 140	U/l	7880	7359 - 8400
	Humalyzer 4000	µkat/l	140	126 - 154	U/l	8400	7566 - 9234
CK NAC activated Enzymatic, 37°C	Humalyzer photometer	µkat/l	11.9	9.50 - 14.2	U/l	712	570 - 854
CK NAC IquiuV Enzymatic, 37°C, IFCC	HumaStar analyzer , Humalyzer 4000/Primus	µkat/l	12.0	10.9 - 13.0	U/l	718	656 - 779
	Humalyzer 2000/3000	µkat/l	10.8	8.50 - 13.1	U/l	649	510 - 788
auto-CREATININE Iquicolor Jaffé	Humalyzer photometer	µmol/l	365	278 - 453	mg/dl	4.13	3.14 - 5.12
	HumaStar analyzer	µmol/l	454	416 - 491	mg/dl	5.13	4.71 - 5.55
CREATININE Iquicolor Jaffé	Humalyzer photometer	µmol/l	419	371 - 466	mg/dl	4.74	4.20 - 5.27
CREATININE (enzym) Iquicolor Enzymatic	HumaStar analyzer	µmol/l	455	430 - 481	mg/dl	5.15	4.86 - 5.44
	Humalyzer 4000	µmol/l	418	349 - 487	mg/dl	4.73	3.95 - 5.51
gamma-GT Iquicolor Gamma-Glutamyl-3carboxy-4-nitroanilide, 37°C, IFCC	HumaStar analyzer	µkat/l	2.37	2.13 - 2.58	U/l	142	128 - 155
	Humalyzer photometer	µkat/l	2.05	1.72 - 2.37	U/l	123	103 - 142
GLUCOSE Iquicolor GOD	HumaStar analyzer	mmol/l	11.0	10.3 - 11.7	mg/dl	198	185 - 211
	Humalyzer photometer	mmol/l	11.5	10.4 - 12.5	mg/dl	207	188 - 225
GLUCOSE IquiuV^{mono} Hexokinase	HumaStar analyzer	mmol/l	11.0	10.3 - 11.8	mg/dl	199	186 - 212
	Humalyzer photometer	mmol/l	12.4	10.8 - 14.0	mg/dl	223	194 - 252
GOT (ASAT) IFCC mod. IquiuV Enzymatic, 37°C, IFCC without PSP	HumaStar analyzer	µkat/l	2.05	1.92 - 2.18	U/l	123	115 - 131
	Humalyzer photometer	µkat/l	2.08	1.82 - 2.33	U/l	125	109 - 140
GPT (ALAT) IFCC mod. IquiuV Enzymatic, 37°C, IFCC without PSP	HumaStar analyzer	µkat/l	1.98	1.77 - 2.20	U/l	119	106 - 132
	Humalyzer photometer	µkat/l	1.92	1.60 - 2.25	U/l	115	96.1 - 135

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HDL CHOLESTEROL liquicolor Homogenous enzymatic assay	HumaStar analyzer, Humalyzer photometer	mmol/l	2.50	1.81 - 3.21	mg/dl	96.8	69.8 - 124
HDL CHOLESTEROL Precipitation method	Humalyzer photometer	mmol/l	3.31	2.92 - 3.72	mg/dl	128	113 - 144
IRON liquicolor CAB	HumaStar analyzer	µmol/l	55.8	49.4 - 62.1	µg/dl	312	276 - 347
	Humalyzer photometer	µmol/l	46.2	33.5 - 58.9	µg/dl	258	187 - 329
IRON TPTZ liquicolor TPTZ	HumaStar analyzer	µmol/l	56.0	52.4 - 59.8	µg/dl	313	293 - 334
	Humalyzer photometer	µmol/l	51.7	45.3 - 58.2	µg/dl	289	253 - 325
IMMUNOGLOBULINS direct IgA Immunoturbidimetry	HumaStar analyzer, Humalyzer photometer	g/l	2.58	2.28 - 2.88	mg/dl	258	228 - 288
IMMUNOGLOBULINS direct IgG Immunoturbidimetry	HumaStar analyzer, Humalyzer photometer	g/l	12.3	9.83 - 14.8	mg/dl	1234	983 - 1484
IMMUNOGLOBULINS direct IgM Immunoturbidimetry	HumaStar 600, Humalyzer 4000	g/l	0.86	0.78 - 0.93	mg/dl	85.6	78.2 - 93.0
	HumaStar 100/200/300SR, Humalyzer 2000/3000	g/l	1.16	0.90 - 1.43	mg/dl	116	89.7 - 143
LDH SCE mod. liquiUV Substrate Pyruvate, 37°C, SCE	HumaStar analyzer	µkat/l	11.3	10.3 - 12.2	U/l	676	619 - 733
	Humalyzer photometer	µkat/l	11.3	9.42 - 13.2	U/l	677	565 - 790
LDL CHOLESTEROL liquicolor Homogenous enzymatic assay	HumaStar analyzer, Humalyzer photometer	mmol/l	4.73	3.75 - 5.74	mg/dl	183	145 - 222
LIPASE liquicolor Substrate Methylresorufin, 37°C	LOT 21001 and higher	µkat/l	1.21	1.05 - 1.37	U/l	72.5	62.9 - 82.1
	up to LOT 20010	µkat/l	1.09	0.81 - 1.38	U/l	65.5	48.4 - 82.6
MAGNESIUM liquicolor Xylidyl blue	HumaStar analyzer	mmol/l	1.24	1.07 - 1.41	mg/dl	3.01	2.59 - 3.43
	Humalyzer photometer	mmol/l	1.34	1.21 - 1.47	mg/dl	3.25	2.93 - 3.57
PANCREAS-AMYLASE liquicolor EPS-G7, 37°C	HumaStar analyzer, Humalyzer photometer	µkat/l	2.57	2.35 - 2.77	U/l	154	141 - 166
PHOSPHORUS liquirapid Molybdate (UV)	HumaStar analyzer	mmol/l	2.41	2.21 - 2.61	mg/dl	7.46	6.83 - 8.08
	Humalyzer photometer	mmol/l	2.77	2.44 - 3.11	mg/dl	8.59	7.55 - 9.62
Potassium ISE direct	HumaStar 600, Humalyte	mmol/l	6.30	5.91 - 6.69	mval/l	6.30	5.91 - 6.69
POTASSIUM liquirapid Precipitation method	Humalyzer photometer	mmol/l	6.01	4.89 - 7.12	mval/l	6.01	4.89 - 7.12
POTASSIUM liquiUV Enzymatic	HumaStar analyzer, Humalyzer photometer	mmol/l	6.46	5.57 - 7.34	mval/l	6.46	5.57 - 7.34
Sodium ISE direct	HumaStar 600, Humalyte	mmol/l	160	155 - 165	mval/l	160	155 - 165
SODIUM liquicolor Enzymatic	HumaStar analyzer, Humalyzer photometer	mmol/l	151	131 - 171	mval/l	151	131 - 171
SODIUM RAPID Precipitation method	Humalyzer photometer	mmol/l	134	106 - 161	mval/l	134	106 - 161
TIBC Fe saturation Fe determination using IRON TPTZ liquicolor	HumaStar analyzer	µmol/l	105	87.0 - 123	µg/dl	588	486 - 689
TIBC Fe saturation Fe determination using IRON liquicolor	HumaStar analyzer	µmol/l	94.0	79.8 - 108	µg/dl	525	446 - 604
TOTAL PROTEIN liquicolor Biuret	HumaStar analyzer	g/l	91.3	83.3 - 99.3	g/dl	9.13	8.33 - 9.93
	Humalyzer photometer	g/l	93.9	85.3 - 102	g/dl	9.39	8.53 - 10.2
TRIGLYCERIDES liquicolor^{mono} GPO POD	Humalyzer photometer	mmol/l	2.68	2.29 - 3.07	mg/dl	235	201 - 269
	HumaStar analyzer	mmol/l	2.74	2.51 - 2.98	mg/dl	240	220 - 261
UREA liquicolor Berthelot mod.	Humalyzer photometer	mmol/l	23.6	20.0 - 27.3	mg/dl	142	120 - 164
UREA liquiUV Urease (UV)	Humalyzer photometer	mmol/l	23.8	22.1 - 25.6	mg/dl	143	133 - 154
	HumaStar analyzer	mmol/l	24.0	22.5 - 25.3	mg/dl	144	135 - 152
URIC ACID liquicolor^{plus} Uricase	HumaStar analyzer	µmol/l	636	520 - 755	mg/dl	10.7	8.74 - 12.7
	HumaStar analyzer	µmol/l	607	556 - 660	mg/dl	10.2	9.35 - 11.1
URIC ACID liquicolor Uricase	HumaStar analyzer	µmol/l	613	504 - 720	mg/dl	10.3	8.47 - 12.1
	Humalyzer photometer	µmol/l	613	544 - 678	mg/dl	10.3	9.14 - 11.4