

TURBIDOS

IVD

REF 13010

Lot H022

Target Values / Sollwerte / Valores Meta/ Valeurs Souhaitées

HUMAN		SI Units	Target	Range	Units	Target	Range
Constituent / Method		SI Einheiten	Sollwert	Bereich	Einheiten	Valor meta	Bereich
		Unités SI	Valor meta	Rango	Unités	Valeur souhaitée	Rango
		Unités SI	Valeur souhaitée	Marge			Marge
Level 1							
ALBUMIN	Multipurpose reagent	g/l	25,2	19,4 - 31,0	g/dl	2,52	1,94 - 3,10
Bromocresol Green CRM 470	HumaStar 600/150 system reagent	g/l	25,2	19,4 - 31,0	g/dl	2,52	1,94 - 3,10
ANTISTREPTOLYSIN O (ASO)	Multipurpose reagent	klU/l	96,4	77,1 - 116	IU/ml	96,4	77,1 - 116
Immunoturbidimetry latex enhanced	HumaStar 600 system reagent	klU/l	96,4	77,1 - 116	IU/ml	96,4	77,1 - 116
C-REACTIVE PROTEIN (CRP)	Multipurpose reagent , 1-P-Cal**	mg/l	13,6	10,9 - 16,3	mg/dl	1,36	1,09 - 1,63
Immunoturbidimetry	Multipurpose reagent , m-P-Cal***	mg/l	8,60	6,88 - 10,3	mg/dl	0,86	0,69 - 1,03
	HumaStar 600/150 system reagent	mg/l	8,85	7,08 - 10,6	mg/dl	0,89	0,71 - 1,06
C-REACTIVE PROTEIN (CRPhs)	Multipurpose reagent , 1-P-Cal**	mg/l	6,77	3,79 - 10,6	mg/dl	0,68	0,38 - 1,06
Immunoturbidimetry	Multipurpose reagent , m-P-Cal***	mg/l	9,63	7,70 - 11,6	mg/dl	0,96	0,77 - 1,15
COMPLEMENT C3	Multipurpose reagent	g/l	0,91	0,73 - 1,09	mg/dl	91,1	72,9 - 109
Immunoturbidimetry	HumaStar 600 system reagent	g/l	0,91	0,73 - 1,09	mg/dl	91,1	72,9 - 109
COMPLEMENT C4	Multipurpose reagent	g/l	0,18	0,14 - 0,21	mg/dl	17,7	14,2 - 21,2
Immunoturbidimetry	HumaStar 600 system reagent	g/l	0,18	0,14 - 0,21	mg/dl	17,7	14,2 - 21,2
FERRITIN	Multipurpose reagent	µg/l	56,5	45,2 - 67,8	ng/ml	56,5	45,2 - 67,8
Immunoturbidimetry latex enhanced	HumaStar 600 system reagent	µg/l	59,0	47,2 - 70,8	ng/ml	59,0	47,2 - 70,8
IMMUNOGLOBULIN A (IgA)	Multipurpose reagent	g/l	N/A	N/A - N/A	mg/dl	N/A	N/A - N/A
Immunoturbidimetry							
IMMUNOGLOBULIN A (IgA) direct	Multipurpose reagent	g/l	1,37	1,10 - 1,64	mg/dl	137	110 - 164
Immunoturbidimetry	HumaStar 600 system reagent	g/l	1,37	1,10 - 1,64	mg/dl	137	110 - 164
IMMUNOGLOBULIN G (IgG)	Multipurpose reagent	g/l	N/A	N/A - N/A	mg/dl	N/A	N/A - N/A
Immunoturbidimetry							
IMMUNOGLOBULIN G (IgG) direct	Multipurpose reagent	g/l	5,14	4,11 - 6,17	mg/dl	514	411 - 617
Immunoturbidimetry	HumaStar 600 system reagent	g/l	5,14	4,11 - 6,17	mg/dl	514	411 - 617
IMMUNOGLOBULIN M (IgM)	Multipurpose reagent	g/l	N/A	N/A - N/A	mg/dl	N/A	N/A - N/A
Immunoturbidimetry							
IMMUNOGLOBULIN M (IgM) direct	Multipurpose reagent	g/l	0,39	0,31 - 0,46	mg/dl	38,7	31,0 - 46,4
Immunoturbidimetry	HumaStar 600 system reagent	g/l	0,39	0,31 - 0,46	mg/dl	38,7	31,0 - 46,4
PROTEIN TOTAL	Multipurpose reagent	g/l	45,6	40,6 - 50,6	g/dl	4,56	4,06 - 5,06
Biuret	HumaStar 600 system reagent	g/l	47,9	42,6 - 53,2	g/dl	4,79	4,26 - 5,32
RHEUMATOID FACTORS (RF)	Multipurpose reagent	klU/l	*		IU/ml	*	
Immunoturbidimetry	HumaStar 600 system reagent	klU/l	*		IU/ml	*	
RHEUMATOID FACTORS (RF)	Multipurpose reagent	klU/l	*		IU/ml	*	
Immunoturbidimetry latex enhanced							
TRANSFERRIN	Multipurpose reagent	g/l	1,83	1,46 - 2,20	mg/dl	183	146 - 220
Immunoturbidimetry	HumaStar 600 system reagent	g/l	1,77	1,42 - 2,12	mg/dl	177	142 - 212
Level 2							
ALBUMIN	Multipurpose reagent	g/l	71,2	54,8 - 87,6	g/dl	7,12	5,48 - 8,76
Bromocresol Green CRM 470	HumaStar 600 system reagent	g/l	71,2	54,8 - 87,6	g/dl	7,12	5,48 - 8,76
ANTISTREPTOLYSIN O (ASO)	Multipurpose reagent	klU/l	357	286 - 428	IU/ml	357	286 - 428
Immunoturbidimetry latex enhanced	HumaStar 600 system reagent	klU/l	357	286 - 428	IU/ml	357	286 - 428
C-REACTIVE PROTEIN (CRP)	Multipurpose reagent , 1-P-Cal**	mg/l	78,3	62,6 - 94,0	mg/dl	7,83	6,26 - 9,40
Immunoturbidimetry	Multipurpose reagent , m-P-Cal***	mg/l	60,6	48,5 - 72,7	mg/dl	6,06	4,85 - 7,27
	HumaStar 600/150 system reagent	mg/l	65,6	52,5 - 78,7	mg/dl	6,56	5,25 - 7,87
C-REACTIVE PROTEIN (CRPhs)	Multipurpose reagent , 1-P-Cal**	mg/l	75,1	60,1 - 90,1	mg/dl	7,51	6,01 - 9,01
Immunoturbidimetry	Multipurpose reagent , m-P-Cal***	mg/l	68,3	54,6 - 82,0	mg/dl	6,83	5,46 - 8,20
COMPLEMENT C3	Multipurpose reagent	g/l	2,61	2,09 - 3,13	mg/dl	261	209 - 313
Immunoturbidimetry	HumaStar 600 system reagent	g/l	2,87	2,30 - 3,44	mg/dl	287	230 - 344
COMPLEMENT C4	Multipurpose reagent	g/l	0,48	0,38 - 0,57	mg/dl	47,6	38,1 - 57,1
Immunoturbidimetry	HumaStar 600 system reagent	g/l	0,45	0,36 - 0,54	mg/dl	44,6	35,7 - 53,5
FERRITIN	Multipurpose reagent	µg/l	377	302 - 452	ng/ml	377	302 - 452
Immunoturbidimetry latex enhanced	HumaStar 600 system reagent	µg/l	N/A	N/A - N/A	ng/ml	N/A	N/A - N/A
IMMUNOGLOBULIN A (IgA)	Multipurpose reagent	g/l	N/A	N/A - N/A	mg/dl	N/A	N/A - N/A
Immunoturbidimetry							
IMMUNOGLOBULIN A (IgA) direct	Multipurpose reagent	g/l	3,65	2,92 - 4,38	mg/dl	365	292 - 438
Immunoturbidimetry	HumaStar 600 system reagent	g/l	3,82	3,06 - 4,58	mg/dl	382	306 - 458
IMMUNOGLOBULIN G (IgG)	Multipurpose reagent	g/l	N/A	N/A - N/A	mg/dl	N/A	N/A - N/A
Immunoturbidimetry							
IMMUNOGLOBULIN G (IgG) direct	Multipurpose reagent	g/l	15,1	12,1 - 18,1	mg/dl	1510	1208 - 1812
Immunoturbidimetry	HumaStar 600 system reagent	g/l	15,1	12,1 - 18,1	mg/dl	1510	1208 - 1812
IMMUNOGLOBULIN M (IgM)	Multipurpose reagent	g/l	N/A	N/A - N/A	mg/dl	N/A	N/A - N/A
Immunoturbidimetry							
IMMUNOGLOBULIN M (IgM) direct	Multipurpose reagent	g/l	1,16	0,93 - 1,39	mg/dl	116	93 - 139
Immunoturbidimetry	HumaStar 600 system reagent	g/l	1,16	0,93 - 1,39	mg/dl	116	93 - 139
PROTEIN TOTAL	Multipurpose reagent	g/l	113	101 - 125	g/dl	11,3	10,1 - 12,5
Biuret	HumaStar 600 system reagent	g/l	118	105 - 131	g/dl	11,8	10,5 - 13,1
RHEUMATOID FACTORS (RF)	Multipurpose reagent	klU/l	*		IU/ml	*	
Immunoturbidimetry	HumaStar 600 system reagent	klU/l	*		IU/ml	*	
RHEUMATOID FACTORS (RF)	Multipurpose reagent	klU/l	*		IU/ml	*	
Immunoturbidimetry latex enhanced							
TRANSFERRIN	Multipurpose reagent	g/l	5,18	4,14 - 6,22	mg/dl	518	414 - 622
Immunoturbidimetry	HumaStar 600 system reagent	g/l	5,37	4,30 - 6,44	mg/dl	537	430 - 644

* www.human.de/data/gb/vr/targetvaluerf-h022.pdf or
www.human-de.com/data/gb/vr/targetvaluerf-h022.pdf

** 1 point calibration
*** multipoint calibration

CS-TU-H022 INF 1301002 02-2016-03

Human

Human Gesellschaft für Biochemica und Diagnostica mbH
Max-Planck-Ring 21 · 65205 Wiesbaden · Germany

TURBIDOS

Target Values / Sollwerte / Valores Meta/ Valeurs Souhaitées

IVD

REF 13010

Lot H022

Constituent/Method	SI Units S Einheiten Unidades SI Unités SI	Target	Range	Target	Range	Units	Target	Range	Target	Range
		Sollwert Valor meta Valeur Valeur souhaitée	Bereich Rango Marge	Sollwert Valor meta Valeur Valeur souhaitée	Bereich Rango Marge	Einheiten Unidades Unités	Sollwert Valor meta Valeur Valeur souhaitée	Bereich Rango Marge	Sollwert Valor meta Valeur Valeur souhaitée	Bereich Rango Marge
		Level 1		Level 2			Level 1		Level 2	
Abbott Architect/Aeroset Systems										
Albumin (BCP)	g/L	23,8	19.0 - 28.6	65.1	52.1 - 78.1	g/dL	2.38	1.90 - 2.86	6.51	5.21 - 7.81
Alpha-1 Antitrypsin (AAT)	g/L	0.91	0.73 - 1.09	2.44	1.95 - 2.93	mg/dL	91.2	73.0 - 109	244	195 - 293
Antistreptolysin O (ASO)	klU/L	118	94.7 - 142	343	275 - 412	IU/mL	118	94.7 - 142	343	275 - 412
Beta-2 Microglobulin	mg/L	3.01	2.41 - 3.61	10.9	8.73 - 13.1	mg/dL	0.301	0.24 - 0.36	1.09	0.87 - 1.31
C3 Complement	g/L	0.88	0.70 - 1.05	2.58	2.07 - 3.10	mg/dL	87.9	70.3 - 105	258	207 - 310
C4 Complement	g/L	0.18	0.14 - 0.21	0.52	0.41 - >0.58	mg/dL	17.6	14.1 - 21.1	51.5	41.2 - >58.0
Ceruloplasmin	g/L	0.20	0.16 - 0.24	0.50	0.40 - 0.59	mg/dL	19.6	15.7 - 23.5	49.5	39.6 - 59.4
C-Reactive Protein (CRP)	mg/L	10.9	8.70 - 13.1	74.0	59.2 - 88.8	mg/dL	1.09	0.87 - 1.31	7.40	5.92 - 8.88
Haptoglobin	g/L	0.96	0.77 - 1.16	2.66	2.13-3.20	mg/dL	96.3	77.0 - 116	266	213-320
Immunoglobulin A (IgA)	g/L	1.36	1.09 - 1.64	3.70	2.96 - 4.44	mg/dL	136	109 - 164	370	296 - 444
Immunoglobulin E (IgE)	klU/L	132	105 - 158	380	304 - 456	IU/mL	132	105 - 158	380	304 - 456
Immunoglobulin G (IgG)	g/L	5.29	4.24 - 6.35	15.3	12.3 - 18.4	mg/dL	529	424 - 635	1533	1226 - 1840
Immunoglobulin M (IgM)	g/L	0.37	0.29 - 0.44	1.12	0.90 - 1.35	mg/dL	36.7	29.4 - 44.0	112	89.8 - 135
Kappa Light Chain - 6K96-30/GK96-10	g/L	1.49	1.19 - 1.79	3.95	3.16 - 4.74	mg/dL	149	119 - 179	395	316 - 474
Lambda Light Chain - 4P80-30/GK63-20	g/L	0.64	0.51 - 0.76	2.15	1.72 - 2.58	mg/dL	63.5	50.8 - 76.2	215	172 - 258
Rheumatoid Factor (RF) - Quantia 6K44-01 (1:1.0)***	klU/L	25.3	20.2 - 30.4	84.2	67.4 - 101	IU/mL	25.3	20.2 - 30.4	84.2	67.4 - 101
Total Protein	g/L	41.1	32.9 - 49.3	111	89.1 - 134	g/dL	4.11	3.29 - 4.93	11.1	8.91 - 13.4
Transferrin	g/L	1.81	1.45 - 2.17	5.15	4.12-6.18	mg/dL	181	145 - 217	515	412-618
BECKMAN COULTER AU SERIES										
Albumin	g/L	24.9	19.9 - 29.9	>60.0		g/dL	2.49	1.99 - 2.99	>6.00	
Antistreptolysin O (ASO)	klU/L	156	125 - 187	531	425 - 637	IU/mL	156	125 - 187	531	425 - 637
C3 Complement	g/L	0.91	0.73 - 1.09	2.46	1.97 - 2.95	mg/dL	90.8	72.6 - 109	246	197 - 295
C4 Complement	g/L	0.20	0.16 - 0.23	0.58	0.46 - 0.69	mg/dL	19.5	15.6 - 23.4	57.6	46.1 - 69.1
C-Reactive Protein (CRP47)	mg/L	10.9	8.70 - 13.1	79.8	63.8 - 95.8	mg/dL	1.09	0.87 - 1.31	7.98	6.38 - 9.58
C-Reactive Protein (CRP99)	mg/L	9.70	7.80 - 11.6	72.7	58.2 - 87.2	mg/dL	0.97	0.78 - 1.16	7.27	5.82 - 8.72
Haptoglobin	g/L	0.92	0.74 - 1.11	2.50	2.00 - 3.00	mg/dL	92.1	73.7 - 111	250	200 - 300
Immunoglobulin A	g/L	1.51	1.21 - 1.81	3.89	3.11 - 4.67	mg/dL	151	121 - 181	389	311 - 467
Immunoglobulin G	g/L	5.53	4.42 - 6.63	14.9	11.9 - 17.8	mg/dL	553	442 - 663	1486	1189 - 1783
Immunoglobulin M	g/L	0.43	0.34 - 0.51	1.10	0.88 - 1.31	mg/dL	42.8	34.2 - 51.4	110	87.6 - 131
Prealbumin	g/L	0.17	0.14 - 0.20	0.43	0.34 - 0.52	mg/dL	17.0	13.6 - 20.4	43.0	34.4 - 51.6
Rheumatoid Factor***	klU/L	29.7	23.8 - 35.7	94.0	75.2 - 113	IU/mL	29.7	23.8 - 35.7	94.0	75.2 - 113
Total Protein	g/L	45.3	36.2 - 54.4	114	90.8 - >120	g/dL	4.53	3.62 - 5.44	11.4	9.08 - >12.0
Transferrin	g/L	1.85	1.48 - 2.22	5.23	4.19 - 6.28	mg/dL	185	148 - 222	523	419 - 628
BECKMAN COULTER IMMAGE										
Albumin	g/L	24.5	19.6 - 29.4	66.7	53.3 - 80.0	mg/dL	2453	1962 - 2944	6666	5333 - 7999
Alpha-1 Antitrypsin (AAT)	g/L	0.84	0.67 - 1.00	2.72	2.17 - 3.26	mg/dL	83.6	66.8 - 100	272	217 - 326
Beta-2 Microglobulin	mg/L	2.80	2.20 - 3.40	10.1	8.10 - 12.1	mg/dL	0.28	0.22 - 0.34	1.01	0.81 - 1.21
C3 Complement	g/L	0.83	0.66 - 0.99	2.50	2.00 - 3.00	mg/dL	82.6	66.0 - 99.1	250	200 - 300
C4 Complement	g/L	0.19	0.15 - 0.22	0.55	0.44 - 0.66	mg/dL	18.6	14.9 - 22.3	54.7	43.8 - 65.6
Ceruloplasmin	mg/L	172	138 - 207	491	382 - 601	mg/dL	17.2	13.8 - 20.7	49.1	38.2 - 60.1
C-Reactive Protein (CRP)	mg/L	10.8	8.60 - 13.0	73.3	58.6 - 88.0	mg/dL	1.08	0.86 - 1.30	7.33	5.86 - 8.80
Haptoglobin	g/L	0.96	0.77 - 1.15	2.30	1.84 - 2.76	mg/dL	95.8	76.6 - 115	230	184 - 276
Immunoglobulin A (IgA)	g/L	1.33	1.06 - 1.59	3.78	3.03 - 4.54	mg/dL	133	106 - 159	378	303 - 454
Immunoglobulin E (IgE)	IU/mL	136	109 - 163	399	263 - 535	IU/mL	136	109 - 163	399	263 - 535
Immunoglobulin G (IgG)	g/L	5.49	4.39 - 6.58	15.7	12.5 - 18.8	mg/dL	549	439 - 658	1566	1253 - 1879
Immunoglobulin M (IgM)	g/L	0.45	0.36 - 0.54	1.28	1.02 - 1.53	mg/dL	45.0	36.0 - 53.9	128	102 - 153
Kappa Light Chain	g/L	4.51	3.61 - 5.41	12.6	10.1 - 15.2	mg/dL	451	361 - 541	1264	1011 - 1517
Lambda Light Chain	g/L	2.51	2.01 - 3.01	7.04	5.63 - 8.44	mg/dL	251	201 - 301	704	563 - 844
Transferrin	g/L	1.81	1.45 - 2.17	5.37	4.29 - 6.44	mg/dL	181	145 - 217	537	429 - 644
Beckman Coulter Synchron/Unicel Systems										
Albumin	g/L	24.7	19.8 - 29.6	68.0	54.4 - >70.0	g/dL	2.47	1.98 - 2.96	6.80	5.44 - >7.00
Antistreptolysin O (ASO)	klU/L	88.3	70.6 - 106	318	255 - 382	IU/mL	88.3	70.6 - 106	318	255 - 382
Transferrin	g/L	1.90	1.52 - 2.27	5.34	4.27 - 6.40	mg/dL	190	152 - 227	534	427 - 640
Binding Site Optilite® Analyser										
Albumin	g/L	22.7	18.2 - 27.2	63.8	49.1 - 78.5	g/dL	2.27	1.82 - 2.72	6.38	4.91 - 7.85
α-1-Acid Glycoprotein	g/L	0.56	0.45 - 0.67	1.51	1.21 - 1.81	mg/dL	55.7	44.6 - 66.9	151	121 - 181
α-1-Antitrypsin	g/L	0.85	0.68 - 1.03	2.53	2.03 - 3.04	mg/dL	85.4	68.3 - 103	253	203 - 304
α-2-Macroglobulin	g/L	0.94	0.75 - 1.13	2.61	2.09 - 3.13	mg/dL	93.8	75.1 - 113	261	209 - 313
Antistreptolysin O (ASO)	klU/L	190	152 - 228	566	453 - 680	IU/mL	190	152 - 228	566	453 - 680
β-2-Microglobulin	mg/L	2.70	2.20 - 3.20	8.10	6.50 - 9.70	mg/dL	0.27	0.22 - 0.32	0.81	0.65 - 0.97
Ceruloplasmin	g/L	0.21	0.17 - 0.26	0.70	0.56 - 0.84	mg/dL	21.3	17.1 - 25.6	69.9	55.9 - 83.9
Complement C3	g/L	0.86	0.69 - 1.03	2.52	2.02 - >3.00	mg/dL	86	68.8 - 103	252	202 - >300
Complement C4	g/L	0.20	0.16 - 0.23	0.50	0.40 - 0.60	mg/dL	19.5	15.6 - 23.4	49.9	39.9 - 59.9
Haptoglobin	g/L	0.84	0.67 - 1.01	2.30	1.84 - 2.76	mg/dL	84.2	67.4 - 101	230	184 - 276
Immunoglobulin A (IgA)	g/L	1.42	1.13 - 1.70	3.69	2.95 - 4.43	mg/dL	142	113 - 170	369	295 - 443
Immunoglobulin G (IgG)	g/L	5.36	4.29 - 6.44	14.9	11.9 - 17.9	mg/dL	536	429 - 644	1487	1190 - 1785
Immunoglobulin M (IgM)	g/L	0.40	0.32 - 0.48	1.10	0.88 - 1.32	mg/dL	39.9	31.9 - 47.8	110	88.1 - 132
Prealbumin	g/L	0.16	0.13 - 0.20	0.46	0.37 - 0.55	mg/dL	16.4	13.1 - 19.7	45.9	36.7 - 55.0
Transferrin	g/L	1.80	1.44 - 2.17	4.64	3.52 - >5.60	mg/dL	180	144 - 217	464	352 - >560
IgG1	mg/L	3075	2460 - 3690	7923	6339 - 9508	mg/dL	307	246 - 369	792	634 - 951
IgG2	mg/L	1982	1585 - 2378	5167	4133 - 6200	mg/dL	198	159 - 238	517	413 - 620

TURBIDOS

Target Values / Sollwerte / Valores Meta/ Valeurs Souhaitées

IVD

REF 13010

Lot H022

Constituent/Method	SI Units SI Einheiten Unidades SI Unités SI	Target Sollwert Valor meta Valeur souhaitée		Range Bereich Rango Marge		Target Sollwert Valor meta Valeur souhaitée		Range Bereich Rango Marge		Units Einheiten Unidades Unités		Target Sollwert Valor meta Valeur souhaitée		Range Bereich Rango Marge	
		Level 1	Level 2	Level 1	Level 2	Level 1	Level 2	Level 1	Level 2	Level 1	Level 2	Level 1	Level 2	Level 1	Level 2
IgG3	mg/L	442	354 - 531	1076	861 - 1291	mg/dL	44.2	35.4 - 53.1	108	86.1 - 129					
IgG4	mg/L	232	186 - 278	576	461 - 691	mg/dL	23.2	18.6 - 27.8	57.6	46.1 - 69.1					
Binding Site SPAPLUS® Analyser															
Albumin	g/L	24.8	19.8 - 29.8	61.5	-6.00 - 129	mg/dL	2.48	1.98 - 2.98	6.15	-0.60 - 12.9					
Alpha-1 Acid Glycoprotein (AAG)	g/L	0.60	0.48 - 0.72	1.67	1.34 - 2.01	mg/dL	59.8	47.9 - 71.8	167	134 - 201					
Alpha-1 Antitrypsin (AAT)	g/L	0.91	0.73 - 1.09	2.69	1.50 - 3.87	mg/dL	91.2	73.0 - 109	269	150 - 387					
Alpha-2 Macroglobulin	g/L	0.99	0.80 - 1.19	2.64	2.11 - 3.17	mg/dL	99.4	79.5 - 119	264	211 - 317					
Antistreptolysin O (ASO)	klU/L	197	158 - 237	569	455 - 682	IU/mL	197	158 - 237	569	455 - 682					
Beta-2 Microglobulin	mg/L	2.93	2.34 - 3.52	9.62	7.70 - 11.5	mg/dL	0.293	0.23 - 0.35	0.962	0.77 - 1.15					
C3 Complement	g/L	0.95	0.76 - 1.14	2.70	2.16 - 3.25	mg/dL	94.7	75.8 - 114	270	216 - 325					
C4 Complement	g/L	0.19	0.15 - 0.23	0.51	0.41 - 0.61	mg/dL	19.1	15.3 - 23.0	51.1	40.9 - 61.3					
Ceruloplasmin	mg/L	0.21	0.17 - 0.25	0.60	0.48 - 0.72	mg/dL	20.9	16.7 - 25.1	60.1	48.1 - 72.2					
C-Reactive Protein (CRP)	mg/L	12.1	9.70 - 14.5	79.7	63.8 - 95.6	mg/dL	1.21	0.97 - 1.45	7.97	6.38 - 9.56					
Haptoglobin	g/L	0.91	0.73 - 1.09	2.49	1.99 - 2.99	mg/dL	91.1	72.9 - 109	249	199 - 299					
Immunoglobulin A (IgA)	g/L	1.47	1.18 - 1.77	3.99	3.19 - 4.78	mg/dL	147	118 - 177	399	319 - 478					
Immunoglobulin E (IgE)	klU/L	133	107 - 160	372	297 - 446	IU/mL	133	107 - 160	372	297 - 446					
Immunoglobulin G (IgG)	g/L	5.69	4.55 - 6.82	15.9	12.7 - 19.0	mg/dL	569	455 - 682	1586	1269 - 1903					
Rheumatoid Factor (RF***)	klU/L	0.16	0.13 - 0.19	0.45	0.36 - 0.54	IU/mL	16.2	13.0 - 19.5	44.7	35.7 - 53.6					
Prealbumin	mg/L	34.3	27.4 - 41.2	167	133 - 200	mg/dL	34.3	27.4 - 41.2	167	133 - 200					
Transferrin	g/L	1.79	1.43 - 2.15	5.10	4.08 - 6.12	mg/dL	179	143 - 215	510	408 - 612					
ROCHE COBAS C / MODULAR SYSTEMS															
Albumin	g/L	25.6	20.5 - 30.7	69.2	55.4-83.0	g/dL	2.56	2.05 - 3.07	6.92	5.54-8.30					
Alpha-1-Antitrypsin (AAT)	g/L	1.02	0.81 - 1.22	2.74	2.19 - 3.29	mg/dL	102	81.3 - 122	274	219 - 329					
Antistreptolysin O (ASO)	klU/L	165	132 - 198	499	399 - 598	IU/mL	165	132 - 198	499	399 - 598					
Beta-2 Microglobulin	mg/L	2.79	2.23 - 3.35	>8.00		mg/dL	0.279	0.22 - 0.34	>0.800						
Ceruloplasmin	g/L	0.26	0.20 - 0.32	0.67	0.54 - 0.80	mg/dL	25.8	19.7 - 31.9	66.9	53.5 - 80.3					
C3 Complement	g/L	0.91	0.73 - 1.09	2.64	2.11 - 3.16	mg/dL	90.9	72.7 - 109	264	211 - 316					
C4 Complement	g/L	0.17	0.14 - 0.21	0.48	0.39 - 0.58	mg/dL	17.2	13.8 - 20.7	48.5	38.8 - 58.2					
C-Reactive Protein (CRPL3, CRPLX)	mg/L	9.70	7.80 - 11.6	69.9	41.7 - 98.1	mg/dL	0.97	0.78 - 1.16	6.99	4.17 - 9.81					
C-Reactive Protein (hsCRP)	mg/L	11.7	9.40 - 14.0	83.2	66.6 - 99.8	mg/dL	1.17	0.94 - 1.40	8.32	6.66 - 9.98					
Haptoglobin	g/L	0.95	0.76 - 1.14	2.64	2.11 - 3.16	mg/dL	95.0	76.0 - 114	264	211 - 316					
Immunoglobulin A (IgA)	g/L	1.32	1.05 - 1.58	3.68	2.95 - 4.42	mg/dL	132	105 - 158	368	295 - 442					
Immunoglobulin E (IgE)	klU/L	162	129 - 194	442	354 - 531	IU/mL	162	129 - 194	442	354 - 531					
Immunoglobulin G (IgG)	g/L	5.12	4.10 - 6.15	14.0	11.2 - 16.9	mg/dL	512	410 - 615	1404	1124 - 1685					
Immunoglobulin M (IgM)	g/L	0.40	0.32 - 0.48	1.16	0.93 - 1.39	mg/dL	39.7	31.8 - 47.7	116	92.7 - 139					
Kappa Light Chain	g/L	0.14	0.11 - 0.17	**		mg/dL	13.8	11.0 - 16.5	**						
Lambda Light Chain	g/L	0.10	0.08 - 0.12	0.22	0.18 - 0.26	mg/dL	9.91	7.93 - 11.9	22.0	17.6 - 26.4					
Prealbumin	g/L	0.16	0.13 - 0.19	0.49	0.39 - 0.58	mg/dL	16.2	13.0 - 19.4	48.5	38.8 - 58.2					
Rheumatoid Factor (RF)***	klU/L	29.2	23.3 - 35.0	91.6	73.3 - 110	IU/mL	29.2	23.3 - 35.0	91.6	73.3 - 110					
Total Protein	g/L	44.3	35.4 - 53.2	108	86.2 - >120	g/dL	4.43	3.54 - 5.32	10.8	8.62 - >12.0					
Transferrin	g/L	1.81	1.45 - 2.17	5.02	4.02 - >5.20	mg/dL	181	145 - 217	502	402 - >520					
Roche Integra															
Alpha-1 Antitrypsin (AAT)	g/L	0.97	0.78 - 1.16	2.86	2.28 - 3.43	mg/dL	97.0	77.6 - 116	286	228 - 343					
C3 Complement	g/L	0.91	0.73 - 1.09	2.51	2.01 - 3.02	mg/dL	90.6	72.5 - 109	251	201 - 302					
C4 Complement	g/L	0.17	0.14 - 0.20	0.48	0.39 - 0.58	mg/dL	16.9	13.6 - 20.3	48.4	38.7 - 58.1					
Haptoglobin	g/L	0.92	0.73 - 1.10	2.54	2.03 - 3.05	mg/dL	91.5	73.2 - 110	254	203 - 305					
Immunoglobulin A (IgA)	g/L	1.46	1.17 - 1.76	4.19	3.35 - 5.03	mg/dL	146	117 - 176	419	335 - 503					
Immunoglobulin G (IgG)	g/L	5.43	4.34 - 6.52	15.2	12.2 - 18.2	mg/dL	543	434 - 652	1520	1216 - 1824					
Immunoglobulin M (IgM)	g/L	0.47	<0.40 - 0.56	1.18	0.94 - 1.41	mg/dL	46.5	<40.0 - 55.8	118	94.2 - 141					
Rheumatoid Factor (RF)***	klU/L	28.9	23.1 - 34.7	81.5	65.2 - 97.8	IU/mL	28.9	23.1 - 34.7	81.5	65.2 - 97.8					
Siemens Advia															
Albumin	g/L	25.5	20.4 - 30.6	67.2	53.8 - 80.6	g/dL	2.55	2.04 - 3.06	6.72	5.38 - 8.06					
Antistreptolysin O (ASO)	klU/L	144	115 - 172	519	415 - 622	IU/mL	144	115 - 172	519	415 - 622					
C3 Complement	g/L	0.88	0.70 - 1.05	2.55	2.04 - 3.06	mg/dL	87.9	70.3 - 105	255	204 - 306					
C4 Complement	g/L	0.17	0.14 - 0.21	0.50	0.40 - 0.60	mg/dL	17.2	13.8 - 20.6	50.0	40.0 - 60.0					
C-Reactive Protein (CRP)	mg/L	12.8	10.2 - 15.4	72.2	57.8 - 86.6	mg/dL	1.28	1.02 - 1.54	7.22	5.78 - 8.66					
C-Reactive Protein (hsCRP)	mg/L	12.1	9.70 - 14.5	73.3	58.6 - 88.0	mg/dL	1.21	0.97 - 1.45	7.33	5.86 - 8.80					
Immunoglobulin A (IgA)	g/L	1.47	1.17 - 1.76	3.96	3.16 - 4.75	mg/dL	147	117 - 176	396	316 - 475					
Immunoglobulin G (IgG)	g/L	5.43	4.35 - 6.52	15.4	12.3 - 18.4	mg/dL	543	435 - 652	1535	1228 - 1841					
Immunoglobulin M (IgM)	g/L	0.43	0.35 - 0.52	1.28	1.02 - 1.53	mg/dL	43.4	34.7 - 52.1	128	102 - 153					
Prealbumin	g/L	0.16	0.13 - 0.19	0.44	0.35 - 0.53	mg/dL	16.0	12.8 - 19.2	44.2	35.4 - 53.0					
Rheumatoid Factor (RF)***	klU/L	32.2	25.8 - 38.6	119	94.8-142	IU/mL	32.2	25.8 - 38.6	119	94.8-142					
Total Protein	g/L	45.1	36.1 - 54.1	112	89.8 - >120	g/dL	4.51	3.61 - 5.41	11.2	8.98 - >12.0					
Transferrin	g/L	1.88	1.50 - 2.26	5.14	4.11 - >5.50	mg/dL	188	150 - 226	514	411 - >550					
Siemens BN II/Prospec															
Albumin	g/L	25.4	20.3 - 30.5	62.8	50.2 - 75.4	g/dL	2.54	2.03 - 3.05	6.28	5.02 - 7.54					
Antistreptolysin O (ASO)	klU/L	161	129 - 193	490	392 - 588	IU/mL	161	129 - 193	490	392 - 588					
C3 Complement	g/L	0.91	0.73 - 1.09	2.49	1.99 - 2.99	mg/dL	90.7	72.5 - 109	249	199 - 299					
C4 Complement	g/L	0.19	0.15 - 0.23	0.56	0.45 - 0.68	mg/dL	19.2	15.4 - 23.1	56.3	45.1 - 67.6					
Haptoglobin	g/L	0.94	0.75 - 1.12	2.57	2.06 - 3.08	mg/dL	93.7	75.0 - 112	257	206 - 308					

TURBIDOS

Target Values / Sollwerte / Valores Meta/ Valeurs Souhaitées

IVD

REF 13010

Lot H022

Constituent/Method	SI Units SI Einheiten Unitades SI Unités SI	Target	Range	Target	Range	Units	Target	Range	Target	Range
		Sollwert Valor meta Valeur souhaitée	Bereich Rango Marge	Sollwert Valor meta Valeur souhaitée	Bereich Rango Marge	Einheiten Unitades Unités	Sollwert Valor meta Valeur souhaitée	Bereich Rango Marge	Sollwert Valor meta Valeur souhaitée	Bereich Rango Marge
		Level 1		Level 2			Level 1		Level 2	
Immunoglobulin A (IgA)	g/L	1.48	1.18 - 1.77	3.98	3.18 - 4.77	mg/dL	148	118 - 177	398	318 - 477
Immunoglobulin E (IgE)	klU/L	161	129 - 193	437	349 - 524	IU/mL	161	129 - 193	437	349 - 524
Immunoglobulin G (IgG)	g/L	5.74	4.59 - 6.89	15.4	12.3 - 18.5	mg/dL	574	459 - 689	1541	1233 - 1849
Immunoglobulin M (IgM)	g/L	0.45	0.36 - 0.54	1.24	0.99 - 1.48	mg/dL	44.8	35.9 - 53.8	124	98.9 - 148
Rheumatoid Factor (RF)***	klU/L	20.9	16.7 - 25.0	70.2	56.2 - 84.3	IU/mL	20.9	16.7 - 25.0	70.2	56.2 - 84.3
Siemens Dimension® Systems										
Albumin (ALB)	g/L	24.6	19.7 - 29.5	69.6	55.7 - >80.0	g/dL	2.46	1.97 - 2.95	6.96	5.57 - >8.00
C3 Complement (C3)	g/L	0.86	0.69 - 1.04	2.50	2.00 - 3.00	mg/dL	86.4	69.2 - 104	250	200 - 300
C4 Complement (C4)	g/L	0.18	0.14 - 0.21	0.48	0.39 - 0.58	mg/dL	17.7	14.1 - 21.2	48.1	38.5 - 57.8
C-Reactive Protein (CRP)	mg/L	11.5	9.20 - 13.8	83.0	54.8 - 111	mg/dL	1.15	0.92 - 1.38	8.30	5.48 - 11.1
Immunoglobulin A (IgA)	g/L	1.35	1.08 - 1.62	3.78	3.02 - 4.53	mg/dL	135	108 - 162	378	302 - 453
Immunoglobulin G (IgG)	g/L	5.50	4.40 - 6.60	15.3	12.2 - 18.3	mg/dL	550	440 - 660	1526	1220 - 1831
Immunoglobulin M (IgM)	g/L	0.44	0.35 - 0.52	1.24	0.99 - 1.49	mg/dL	43.7	35.0 - 52.5	124	99.2 - 149
Prealbumin (PALB)	g/L	0.17	0.14 - 0.20	0.56	0.45-0.68	mg/dL	17.0	13.6 - 20.3	56.2	45.0-67.5
Total Protein (TP)	g/L	48.2	38.6 - 57.8	118	94.5 - >120	g/dL	4.82	3.86 - 5.78	11.8	9.45 - >12.0
Transferrin (TRF)	g/L	1.72	1.38 - 2.07	5.18	4.14 - 6.21	mg/dL	172	138 - 207	518	414 - 621
Siemens Dimension® Vista										
Albumin (ALB)	g/L	24.1	19.3 - 28.9	67.9	54.3 - >80.0	g/dL	2.41	1.93 - 2.89	6.79	5.43 - >8.00
Alpha-1 Antitrypsin (A1AT)	g/L	0.99	0.79 - 1.19	3.10	2.48 - 3.72	mg/dL	99.2	79.4 - 119	310	248 - 372
Antistreptolysin O (ASL)	klU/L	159	127 - 191	467	373 - 560	IU/mL	159	127 - 191	467	373 - 560
Beta-2 Microglobulin (B2MIC)	mg/L	2.73	2.18 - 3.28	9.60	7.70 - 11.5	mg/dL	0.273	0.22 - 0.33	0.960	0.77 - 1.15
C3 Complement (C3)	g/L	0.92	0.74 - 1.11	2.59	2.07 - 3.11	mg/dL	20.3	16.2 - 24.3	57.4	45.9 - 68.9
C4 Complement (C4)	g/L	0.19	0.15 - 0.23	0.55	0.44 - 0.66	mg/dL	92.2	73.8 - 111	259	207 - 311
Ceruloplasmin (CER)	g/L	0.20	0.16 - 0.24	0.57	0.46 - 0.69	mg/dL	19.1	15.3 - 22.9	55.3	44.2 - 66.4
C-Reactive Protein (CRP)	mg/L	10.3	7.30 - 13.3	71.4	57.1 - 85.7	mg/dL	1.03	0.73 - 1.33	7.14	5.71 - 8.57
Haptoglobin (HAPT)	g/L	0.95	0.76 - 1.13	2.63	2.10 - 3.15	mg/dL	94.5	75.6 - 113	263	210 - 315
Immunoglobulin A (IgA)	g/L	1.43	1.14 - 1.72	4.00	3.20 - 4.81	mg/dL	143	114 - 172	400	320 - 481
Immunoglobulin E (IgE)	klU/L	157	126 - 188	457	366 - 548	IU/mL	157	126 - 188	457	366 - 548
Immunoglobulin G (IgG)	g/L	5.21	4.17 - 6.26	14.7	11.7 - 17.6	mg/dL	521	417 - 626	1465	1172 - 1758
Immunoglobulin M (IgM)	g/L	0.42	0.34 - 0.51	1.25	1.00 - 1.50	mg/dL	42.5	34.0 - 51.0	125	99.9 - 150
Prealbumin (PALB)	g/L	0.17	0.13 - 0.20	0.58	0.47 - >0.60	mg/dL	16.6	13.3 - 19.9	58.5	46.8 - >60.0
Rheumatoid Factor (RF)***	klU/mL	20.8	16.7 - 25.0	74.3	59.5 - 89.2	IU/mL	20.8	16.7 - 25.0	74.3	59.5 - 89.2
Total Protein (TP)	g/L	47.3	37.8 - 56.8	116	93.0 - >120	g/dL	4.73	3.78 - 5.68	11.6	9.30 - >12.0
Transferrin (TRF)	g/L	1.80	1.44 - 2.17	5.05	4.04 - 6.06	mg/dL	180	144 - 217	505	404 - 606

*** Rheumatoid Factor may decrease over the product shelf life.

Human

CS-TU-H022 INF 1301003 02-2016-03

Human Gesellschaft für Biochemia und Diagnostica mbH
Max-Planck-Ring 21 · 65205 Wiesbaden · Germany