

REF	Content tests	Test code	Method	Units	R = ready to use P = reconst.	Chimney	Calibrator	Calibration points	Calibration type	on board Stability (days)	Calibration stability (days)	Measuring range	Sample Type*	Required solutions	HumaTrol N /P	SERODOS / SERODOS ^{plus}	TURBIDOS	Other controls	Reference ranges (adults) m = male f = female
ACID PHOSPHATASE																			
10660600	3 x 50	ACP	a-Naphtyl phosphate, Hillmann mod.	U/l; µkat/l	P		AUTOCAL	1	Linear Regression	7	7	1.0 – 50 U/l	S	DIL or NaCl	X	X			m: <6.6 U/l; <0.11 µkat/l f: <6.5 U/l; <0.11 µkat/l
ALBUMIN liqicolor																			
10560300	4 x 60	ALB	Bromcresol green	g/dl; g/l	R		AUTOCAL	1	Linear Regression	56	56	0.5 – 8.0 g/dl; 5 – 80 g/l	S; EDTA; HEP	DIL or NaCl	X	X	X		≤60 years: 3.5–5.3 g/dl; 35–53 g/l
10560600	6 x 150																		
ALKALINE PHOSPHATASE liqicolor																			
12117300	2 x 150	ALP	AMP buffer, 37°C, IFCC	U/l; µkat/l	R	R1	AUTOCAL	1	Linear Regression	28	28	10 - 2000 U/l; 0.17 - 33.3 µkat/l	S; HEP	DIL or NaCl	X	X			m: 40 - 130 U/l; 0.67 - 2.17 µkat/l f: 44 - 105 U/l; 0.92 - 1.75 µkat/l
12117600	3 x 250																		
ALKALINE PHOSPHATASE opt. liqicolor																			
12027300	2 x 150	ALP-2	DEA buffer, 37°C, GSCC/DGKC	U/l; µkat/l	R	R1	AUTOCAL	1	Linear Regression	28	28	10 - 2000 U/l; 0.17 - 33.3 µkat/l	S; HEP	DIL or NaCl	X	X			m: 80 - 306 U/l; 1.33 - 5.10 µkat/l f: 64 - 306 U/l; 1.07 - 5.10 µkat/l
12027600	3 x 250																		
alpha-AMYLASE liqicolor																			
12028300	2 x 100	AMY	CNPG3, 37°C, IFCC	U/l; µkat/l	R		AUTOCAL	1	Linear Regression	56	21	3.85 - 1730 U/l; 0.07 - 28.8 µkat/l	S; HEP	DIL or NaCl	X	X			≤220 U/l; ≤3.67 µkat/l
12028600	3 x 260																		
anti-STREPTOLYSIN O																			
11251300	1 x 100	ASO	Immunoturbidimetry, Latex-enhanced	IU/ml; kIU/l	R ⁴⁾	R1	ASO Standard	1	Linear Regression	56	28	10 – 500 IU/ml; 10 – 500 kIU/l	S	DIL or NaCl C-CLEAN			X		≤200 IU/ml; ≤200kIU/l
11251600	1 x 210																		
APOLIPOPROTEIN A1																			
11101600	1 x 70	APOA1	Immunoturbidimetry	mg/dl; g/l	R	R1	APO A1/B Standard	5	Sigmoidea	28	28	30 – 300 mg/dl ⁵⁾ ; 0.30 – 3.0 g/l ⁵⁾	S	DIL or NaCl, C-CLEAN		X			m: 115 - 190 mg/dl; 1.15 - 1.90 g/l f: 115 - 220 mg/dl; 1.15 - 2.20 g/l
APOLIPOPROTEIN B																			
11102600	1 x 70	APOB	Immunoturbidimetry	mg/dl; g/l	R	R1	APO A1/B Standard	5	Sigmoidea	28	28	20 – 220 mg/dl ⁵⁾ ; 0.20 – 2.20 g/l ⁵⁾	S	DIL or NaCl, C-CLEAN	–	X	–	0	m: 60 - 138 mg/dl; 0.60 - 1.38 g/l f: 52 - 129 mg/dl; 0.52 - 1.29 g/l
auto-BILIRUBIN-D liqicolor																			
10741300	2 x 100	DBIL	DPD method	mg/dl; µmol/l	R		AUTOCAL	1	Linear Regression	56	7	0.1 - 10 mg/dl; 1.71 - 171 µmol/l	S; HEP	DIL or NaCl	X	X	–	0	<0.2 mg/dl; <3.42 µmol/l
10741600	5 x 210																		

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auto-BILIRUBIN-T liquicolor																			
10742300	2 x 150	TBIL	DPD method	mg/dl;	R		AUTOCAL	1	Linear Regression	56	56	0.10 - 20 mg/dl; 1.71 - 342 µmol/l	S; HEP	DIL or NaCl	X	X	-	0	0.1 - 1.2 mg/dl; 2 - 21 µmol/l
10742300	5 x 210			µmol/l						56	56								
auto-CREATININE liquicolor																			
10052300	2 x 150	CREA	Jaffé	mg/dl;	R	R1	AUTOCAL	1	Linear Regression	21	7	0.10 - 25.0 mg/dl; 8.84 - 2210 µmol/l	S; HEP	DIL or NaCl	X	X	-	0	m: 0.70 - 1.30 mg/dl; 62 - 115 µmol/l f: 0.58 - 1.12 mg/dl; 51 - 99 µmol/l
10052600	5 x 250			µmol/l						21	7								
CALCIUM liquicolor																			
10011300	3 x 100	Ca	Ortho-cresolphthalein	mg/dl;	R	R1	AUTOCAL	1	Linear Regression	21	1	0.25 - 20 mg/dl; 0.06 - 5.00 mmol/l	S; HEP	DIL or NaCl	X	X	-	0	≤190 mg/dl; ≤5.0 mmol/l
10011600	3 x 430			mmol/l						21	1								
CHOLESTEROL liquicolor																			
10028300	2 x 100	CHOL	CHOD PAP	mg/dl;	R		AUTOCAL	1	Linear Regression	56	56	5 - 1100 mg/dl; 0.13 - 28.4 mmol/l	S; EDTA; HEP	DIL or NaCl	X	X	-	0	≤190 mg/dl; ≤5.0 mmol/l
10028600	3 x 150			mmol/l						56	56								
CHOLINESTERASE liquicolor																			
12007300	2 x 100	CHE	Butyrylthiocholine, 37°C, DGKC	U/l; kU/l; µkat/l	R		AUTOCAL	1	Linear Regression	56	56	500 – 20000 U/l (0.5 – 20 kU/l); 8 – 333 µkat/l	S	DIL or NaCl		X			m: 4620 - 11500 U/l; 77 - 195 µkat/l f: 3930 - 10800 U/l; 65 - 180 µkat/l
CK NAC liquiUV																			
12015600	2 x 180	CK	Enzymatic, 37°C, IFCC	U/l; µkat/l	R		AUTOCAL	1	Linear Regression	56	56	5 – 2000 U/l; 0.08 – 33.3 µkat/l	S; HEP	DIL or NaCl					
CK-MB liquiUV																			
12118600	2 x 100	CKMB	Immuno inhibition	U/l; µkat/l	R		CK-MB Cali- brator	1	Linear Regression	56	56	5 - 2000 U/l; 0.08 - 33.3 µkat/l	S; Li-HEP	DIL or NaCl	-	-	-	CK-MB Control	<24 U/l; <0.4 µkat/l
CHLORIDE liquicolor																			
10115300	2 x 50	Cl	TPTZ method	mmol/l	R		AUTOCAL	1	Linear Regression	35	14	5 - 500 mmol/l; 18 - 1773 mg/dl	S; HEP; CSF	DIL-2 or dist.water	X	X	-	0	Serum: 95 - 105 mmol/l; 337 - 383 mg/dl CSF: 116 - 127 mmol/l; 411 - 450 mg/dl

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COMPLEMENT C3																			
11110600	1 x 70	C3	Immunoturbidimetry	mg/dl; g/l	R	R1	C3/C4/TRF Standard	6	Sigmoidea	56	56	5 - 350 mg/dl 0.05 - 3.50 g/l	S	DIL or NaCl, C-CLEAN	-	-	X	0	90 - 180 mg/dl; 0.9 - 1.8 g/l
COMPLEMENT C4																			
11113600	1 x 70	C4	Immunoturbidimetry	mg/dl; g/l	R	R1	C3/C4/TRF Standard	6	Sigmoidea	56	56	4 - 60 mg/dl 0.04 - 0.60 g/l	S	DIL or NaCl, C-CLEAN	-	-	X	0	20 - 50 mg/dl; 0.2 - 0.5 g/l
CREATININE (enzym) liquicolor																			
10053300	1 x 95	CREA- 2	Enzymatic	mg/dl;	R		AUTOCAL	1	Linear Regression	56	56	0.10 – 40.0 mg/dl; 8.84 – 3536 µmol/l	S, HEP	DIL or NaCl	X	X	-	0	m: 0.64 - 1.19 mg/dl; 57 - 105 µmol/l f: 0.40 - 1.00 mg/dl; 35 - 88 µmol/l
10053600	1 x 275			µmol/l						56	56								
CRP																			
11241300	1 x 100	CRP	Immunoturbidimetry	mg/dl;	R	R2	CRP Standard	6	Sigmoidea	56	14	0.3 - 16.0 mg/dl*; 3 - 160 mg/l*	S; EDTA; HEP	DIL or NaCl, C-CLEAN	-	-	X	0	≤0.5 mg/dl; ≤5 mg/l
11241600	1 x 250			mg/l						56	14								
FERRITIN																			
11610600	1 x 90	FER	Immunoturbidimetry, Latex-enhanced	ng/ml; µg/l	R	R2	FERRITIN Calibrator 500	6	MultiLinear	56	56	7 – 500 ng/ml; 7 – 500 µg/l	S; EDTA; HEP	DIL or NaCl, C-CLEAN	-	-	X	0	m: 20 - 250 ng/ml; 20 - 250 µg/l f: 10 - 120 ng/ml; 10 - 120 µg/l
gamma-GT liquicolor																			
12023300	2 x 100	GGT	gamma-Glutamyl- 3carboxy-4-nitroanili- de, 37°C, IFCC	U/l;	R		AUTOCAL	1	Linear Regression	56	56	2 - 1300 U/l; 0.03 - 21.7 µkat/l	S; EDTA; HEP	DIL or NaCl	X	X	-	0	m: <60 U/l; <1.0 µkat/l f: <40 U/l; <0.65 µkat/l
12023600	3 x 250			µkat/l						56	56								
GLUCOSE liquicolor																			
10260300	2 x 150	GLUC	GOD	mg/dl;	R		AUTOCAL	1	Linear Regression	56	14	2 - 500 mg/dl; 0.11 - 27.8 mmol/l	S; EDTA; HEP ³⁾	DIL or NaCl	X	X	-	0	60 - 95 mg/dl*; 3.3 - 5.3 mmol/l* *fasting
10260600	6 x 210			mmol/l						56	14								
GOT (ASAT) IFCC mod. liquiUV																			
12021300	2 x 200	GOT	Enzymatic, 37°C, IFCC without PSP	U/l;	R		AUTOCAL	1	Linear Regression	56	56	3 - 500 U/l; 0.05 - 8.33 µkat/l	S; EDTA; HEP	DIL or NaCl	X	X	-	0	m: <35 U/l; <0.58 µkat/l f: <31 U/l; <0.52 µkat/l
12021600	5 x 310			µkat/l						56	56								

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GPT (ALAT) IFCC mod. liquiUV																			
12022300	2 x 200	GPT	Enzymatic, 37°C, IFCC without PSP	U/l;	R		AUTOCAL	1	Linear Regression	56	56	7.3 - 440 U/l; 0.12 - 7.33 µkat/l	S; EDTA; HEP	DIL or NaCl	X	X	-	0	m: <45 U/l; <0.74 µkat/l f: <34 U/l; <0.56 µkat/l
12022600	5 x 310			µkat/l						56	56								
HbA1c liquidirect																			
10770600	1 x 135	HbA1c	Immunologic assay	% HbA1c; mmol/mol Hb	R ³⁾	R1	HbA1c liquidirect Calibrator Set	5	Sigmoidea	42	21	15 - 140 mmol/mol Hb ⁵⁾ ; 3.5 - 15% HbA1c ⁵⁾	whole blood (EDTA)	DIL or NaCl, SWA-2	-	-	-	HbA1c liquidirect Control Set	<6% HbA1c; <42 mmol/mol Hb
HDL CHOLESTEROL liquicolor																			
10084300	2 x 100	HDL-C	Homogenous enzymatic assay	mg/dl;	R		AUTOCAL	1	Linear Regression	30	7	5 - 150 mg/dl; 0.13 - 3.88 mmol/l	S; EDTA; HEP	DIL or NaCl	-	X	-	0	>60 mg/dl; >1.54 mmol/l
10084600	2 x 180			mmol/l						21	7								
IMMUNOGLOBULINS direct IgA																			
11501300	1 x 100	IgA	Immunoturbidimetry	mg/dl;	R	R2	Immunoglobulins direct Calibrator Set	6	MultiLinear	28	14	5 - 600 mg/dl; 0.05 - 6.0 g/l	S	DIL or NaCl, SWA-2	-	X	X	0	70 - 500 mg/dl; 0.70 - 5.0 g/l
11501600	1 x 250			g/l						28	14								
IMMUNOGLOBULINS direct IgG																			
11502300	1 x 100	IgG	Immunoturbidimetry	mg/dl;	R	R2	Immunoglobulins direct Calibrator Set	6	MultiLinear	28	28	9 - 2700 mg/dl; 0.09 - 27 g/l	S	DIL or NaCl, SWA-2	-	X	X	0	700 - 1600 mg/dl; 7.0 - 16.0 g/l
11502600	1 x 250			g/l						28	28								
IMMUNOGLOBULINS direct IgM																			
11503300	1 x 100	IgM	Immunoturbidimetry	mg/dl;	R	R2	Immunoglobulins direct Calibrator Set	6	MultiLinear	28	28	7 to 500 mg/dl; 0.07 to 5.0 g/l	S	DIL or NaCl, SWA-2	-	X	X	0	m: 40 - 230 mg/dl; 0.4 - 2.3 g/l f: 40 - 280 mg/dl; 0.4 - 2.8 g/l
11503600	1 x 250			g/l						28	28								
IRON TPTZ liquicolor																			
12290300	2 x 100	Fe	TPTZ	µg/dl;	R		AUTOCAL	1	Linear Regression	56	14	10 - 1200 µg/dl; 2 - 215 µmol/l	S; HEP	DIL or NaCl	X	X	-	0	m: 59 - 158 µg/dl; 10.6 - 28.3 µmol/l f: 37 - 145 µg/dl; 6.6 - 26.0 µmol/l
12290600	2 x 180			µmol/l						56	14								
LDH SCE mod. liquiUV																			
12014300	2 x 100	LDH-P	Pyruvate, 37°C, SCE	U/l;	R		AUTOCAL	1	Linear Regression	56	56	15 - 1600 U/l; 0.25 - 26.7 µkat/l	S; EDTA; HEP	DIL or NaCl	X	X	-	0	225 - 450 U/l; 3.75 - 7.50 µkat/l
12014600	2 x 180			µkat/l						56	56								

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LDL CHOLESTEROL liquicolor																				
10094600	2 x 90	LDL-C	Homogenous enzymatic assay	mg/dl; mmol/l	R		AUTOCAL	1	Linear Regression	56	14	5 - 300 mg/dl; 0.13 - 7.76 mmol/l	S; EDTA; HEP	DIL or NaCl	-	X	-	0	≤100 mg/dl; ≤2.59 mmol/l	
LIPASE liquicolor																				
12006600	2 x 100	LIP	Methylresorufin, 37°C	U/l; μkat/l	R		AUTOCAL	1	Linear Regression	35	14	5 - 300 U/l; 0.08 - 5.0 μkat/l	S; HEP	DIL or NaCl	-	X	-	0	13 - 60 U/l; 0.2 - 1 μkat/l	
LIPOPROTEIN (a), Lp(a)																				
11105600	1 x 90	Lp(a)	Immunoturbidimetry, Latex-enhanced	mg/dl; g/l	R ⁴⁾	R2	Lp(a) Standard	5	Sigmoidea	28	28	2 - 70 mg/dl ⁵⁾ ; 0.02 - 0.7 g/l ⁵⁾	S; EDTA	DIL or NaCl, C-CLEAN	-	X	-	0	≤30 mg/dl; ≤0.3 g/l	
MAGNESIUM liquicolor																				
10010300	4 x 30	Mg	Xylydyl blue	mg/dl; mmol/l	R	R1	AUTOCAL	1	Linear Regression	2	1	0.10 - 4.80 mg/dl; 0.04 - 2.00 mmol/l	S; HEP	DIL or NaCl	X	X	-	0	1.7 - 2.6 mg/dl; 0.70 - 1.05 mmol/l	
10010600	4 x 60									3	1									
MICROALBUMIN																				
11120600	1 x 90	MALB	Immunoturbidimetry	mg/l	R	R2	MICROALBU-MIN Standard	6	Sigmoidea	56	30	5 - 400 mg/l ⁵⁾	collected urine; spot urine	DIL or NaCl, C-CLEAN	-	-	-	0	m: <30 mg/24h; <30 mg/g Crea; ≤ 2.5 mg/mmol Crea f: <30 mg/24h; <30 mg/g Crea; ≤ 3.5 mg/mmol Crea	
PANCREAS-AMYLASE liquicolor																				
12009600	2 x 100	PAMY	EPS-G7, 37°C	U/l; μkat/l	R		AUTOCAL	1	Linear Regression	56	56	5 - 2300 U/l; 0.08 - 38.3 μkat/l	S; EDTA; HEP	DIL or NaCl	X	X	-	0	<53 U/l; <0.88 μkat/l	
PHOSPHORUS liquirapid																				
10027300	4 x 30	PHOS	Molybdate (UV)	mg/dl; mmol/l	R		AUTOCAL	1	Linear Regression	49	21	0.9 - 20 mg/dl; 0.29 - 6.46 mmol/l	S	DIL or NaCl	X	X	-	0	2.6 - 4.5 mg/dl; 0.84 - 1.45 mmol/l	
10027600	4 x 60									61	21									
POTASSIUM liquiUV																				
10120300	1 x 120	K	Enzymatic	mmol/l	R		POTASSIUM liquiUV Stan-dard	2	Linear	56	7	2 - 9 mmol/l	S; Li-HEP	DIL-2 or dist.water	X	X	-	0	3.6 - 5.5 mmol/l	
10120600	1 x 250									63	7									
RHEUMATOID FACTORS																				
11261300	1 x 100	RF-2	Immunoturbidimetry, Latex-enhanced	IU/ml; kIU/l	R		RF Standard	2	MultiLinear	14	5	17 - 90 IU/ml	S	DIL or NaCl, C-CLEAN	-	-	X	0	≤20 IU/ml; ≤20 kIU/l	
11261600	1 x 210									14	5									

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SODIUM liquicolor																			
10113300	1 x 120	Na	Enzymatic	mmol/l	R		SODIUM liquicolor Standard	2	Linear	56	7	90 – 190 mmol/l	S; Li-HEP	DIL-2 or dist.water	X	X	–	0	135 - 145 mmol/l
10113600	1 x 250									63	7								
TOTAL PROTEIN liquicolor																			
10570300	2 x 150	TP	Biuret	g/dl; g/l	R	R1	AUTOCAL	1	Linear Regression	28	28	0.2 - 12 g/dl; 2 - 120 g/l	S; EDTA; HEP	DIL or NaCl	X	X	–	0	6.6 - 8.3 g/dl; 66 - 83 g/l
10570600	6 x 210									28	28								
TRANSFERRIN																			
11115600	1 x 70	TRF	Immunoturbidimetry	mg/dl; g/l	R	R1	C3/C4/TRF Standard	6	Spline	63	63	3 – 850 mg/dl ⁵⁾ or 0.03 – 8.50 g/l ⁵⁾	S	DIL or NaCl, C-CLEAN	–	–	X	0	170 - 340 mg/dl; 1.70 - 3.4 g/l
TRIGLYCERIDES liquicolor^{mono}																			
10724300	3 x 60	TG	GPO PAP	mg/dl; mmol/l	R		AUTOCAL	1	Linear Regression	56	56	10 - 1000 mg/dl; 0.11 - 11.4 mmol/l	S; EDTA; HEP	DIL or NaCl	X	X	–	0	≤150 mg/dl; ≤1.71 mmol/l
10724600	3 x 210									56	56								
UREA liquiUV																			
10521300	2 x 150	UREA	Urease (UV)	mg/dl; mmol/l	R		AUTOCAL	1	Linear Regression	56	14	5 - 350 mg/dl; 0.83 - 58.3 μmol/l	S; EDTA; HEP ²⁾	DIL or NaCl	X	X	–	0	m: 18 - 55 mg/dl; 3.0 - 9.2 mmol/l f: 15 - 43 mg/dl; 2.6 - 7.2 mmol/l
10521600	5 x 250									56	14								
URIC ACID liquicolor plus																			
10694300	2 x 100	UA	Uricase	mg/dl; μmol/l	R		AUTOCAL	1	Linear Regression	56	30	1 - 25 mg/dl; 59.5 - 1487 μmol/l	S; EDTA; HEP	DIL or NaCl	X	X	–	0	m: 3.6 - 7.0 mg/dl; 214 - 416 μmol/l f: 2.3 - 6.0 mg/dl; 137 - 357 μmol/l
10694600	5 x 250									56	30								
URINARY TOTAL PROTEIN liquicolor																			
10590300	3 x 50	UTP	Pyrogallol red	mg/l; mg/dl	R		URINARY TOTAL PROTEIN Standard	1	Linear Regression	56	28	50 – 2000 mg/l; 5 – 200 mg/dl	Urine; CSF	DIL or NaCl, SWA-2	–	–	–	0	Urine: 24 - 141 mg/day CSF: < 500 mg/l; < 50 mg/dl

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