

REF	R = Reagent kit C = Complete kit M = Mono test		Content (ml)	Approx. tests / kit	Test code	Method	Units	R = ready to use P = reconst.	Calibrator	Calibration points	Calibration type	Calibration stability (hours)	Measuring range	Sample type ⁶⁾	Required solutions	HumaTrol N / P SERODOS / SERODOS ^{plus} TURBIDOS	Other controls	Reference ranges (adults) m = male f = female	
ACID PHOSPHATASE																			
12660	R	M	16 x 2	39	ACP	a-Naphtyl phosphate, Hillmann mod. 37°C	U/l; µkat/l	P	AUTOCAL	1	Linear	120	1 - 70 U/l	S	NaCl, (DIL)	X	X		m: <6.6 U/l; <0.11 µkat/l f: <6.5 U/l; <0.11 µkat/l
10660			6 x 15	395															
ALBUMIN liquicolor																			
10560	C		1 x 1000	4.285	ALB	Bromcresol green	g/dl; g/l	R	AUTOCAL (Kit standard)	1	Linear	120	1.5 - 8.0 g/dl	S; EDTA; HEP	NaCl, (DIL)	X	X	X	≤60 years: 3.5 - 5.3 g/dl; 35 - 53 g/l
156004			4 x 100	1.691															
ALKALINE PHOSPHATASE liquicolor																			
12117	R		10 x 10	325	ALP	AMP buffer, 37°C, IFCC	U/l; µkat/l	R	AUTOCAL	1	Linear	120	10 - 2000 U/l	S; HEP	NaCl, (DIL)	X	X	–	m: 40 - 130 U/l; 0.67 - 2.17 µkat/l f: 44 - 105 U/l; 0.92 - 1.75 µkat/l
ALKALINE PHOSPHATASE opt. liquicolor																			
12217	R	M	16 x 5	120	ALP-2	DEA buffer, 37°C, GSKC/DGKC	U/l; µkat/l	R	AUTOCAL	1	Linear	120	10 - 2000 U/l	S; HEP	NaCl, (DIL)	X	X	–	m: 80 - 306 U/l; 1.33 - 5.10 µkat/l f: 64 - 306 U/l; 1.07 - 5.10 µkat/l
12017			10 x 10	325															
12027			8 x 50	1.860															
12037			4 x 250	4.930															
alpha-AMYLASE liquicolor																			
12218	R	M	16 x 5	280	AMY	CNPG3, 37°C, IFCC	U/l; µkat/l	R	AUTOCAL	1	Linear	120	10 - 4000 U/l	S ; HEP; (Urine)	NaCl, (DIL)	X	X	–	30 - 90 U/l; 0.5 - 1.5 µkat/l
12018			12 x 10	510															
12028			6 x 50	1.455															
anti-STREPTOLYSIN O																			
11251P	R		2 x 50	310	ASO	Immunoturbidimetry, Latex-enhanced	IU/ml; kIU/l	R ⁴⁾	ASO Standard	1	Linear	120	10 - 800 IU/ml	S	NaCl, (DIL); C-CLEAN	–	–	X	≤200 IU/ml; ≤200kIU/l
APOLIPOPROTEIN A1																			
11101	R		2 x 30	198	APOA1	Immunoturbidimetry	mg/dl; g/l	R	APO A1/B Standard	5	Multi-para-meters	24	0 - 300 mg/dl; 0 - 3.0 g/l ⁵⁾	S	NaCl, (DIL); 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																			
11102	R		2 x 30	198	APOB	Immunoturbidimetry	mg/dl; g/l	R	APO A1/B Standard	5	Multi-para-meters	120	0 - 280 mg/dl 0 - 2.8 g/l ⁵⁾	S	NaCl, (DIL); C-CLEAN	–	X	–	m: 60 - 138 mg/dl; 0.60 - 1.38 g/l f: 52 - 129 mg/dl; 0.52 - 1.29 g/l

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auto-BILIRUBIN-D liquicolor																	
10741	R	375	1.486	DBIL	DPD method	mg/dl; μmol/l	R	AUTOCAL	1	Linear	120	0 - 7.0 mg/dl	S; HEP	NaCl, (DIL)	X X –		≤0.2 mg/dl; ≤3.42 μmol/l
auto-BILIRUBIN-T liquicolor																	
10742	R	375	1.238	TBIL	DPD method	mg/dl; μmol/l	R	AUTOCAL	1	Linear	120	0.1 - 20 mg/dl	S; HEP	NaCl, (DIL)	X X –		0.1 - 1.2 mg/dl; 2 - 21 μmol/l
auto-CREATININE liquicolor																	
10052	C	250	986	CREA	Jaffé	mg/dl; μmol/l	R	AUTOCAL (Kit standard)	1	Linear	120	0.1 - 25 mg/dl	S; HEP; (Urine)	NaCl, (DIL)	X X –		m: 0.70 - 1.30 mg/dl; 62 - 115 μmol/l f: 0.58 - 1.12 mg/dl; 51 - 99 μmol/l
CALCIUM liquicolor																	
10011	C	200	993	Ca	Ortho-cresolphthalein	mg/dl; mmol/l	R	AUTOCAL (Kit standard)	1	Linear	96	0.25 - 20 mg/dl; 0.06 - 5.00 mmol/l	S; HEP	dist. water, (DIL-2)	X X –		8.6 - 10.3 mg/dl; 2.15 - 2.58 mmol/l
CHOLESTEROL liquicolor																	
10017	C	4 x 30	485	CHOL	CHOD PAP	mg/dl mmol/l	R	AUTOCAL (Kit standard)	1	Linear	120	5 - 1000 mg/dl	S; EDTA; HEP	NaCl, (DIL)	X X –		≤190 mg/dl; ≤5.0 mmol/l
10019		3 x 250	3.172														
10028		4 x 100	1.677														
CHOLINESTERASE liquicolor																	
12007	R	1 x 120	483	CHE	Butyrylthiocholine, 37°C, DGKC	U/l; kU/l; μkat/l	R	AUTOCAL	1	Linear	120	500 - 25,000 U/l	S	NaCl, (DIL)	– X –		m: 4,620 - 11,500 U/l; 77 - 195 μkat/l f: 3,930 - 10,800 U/l; 65 - 180 μkat/l
CK NAC liquiUV																	
12015	R	10 x 10	325	CK	Enzymatic, 37°C, IFCC	U/l; μkat/l	R	AUTOCAL	1	Linear	120	5 - 2000 U/l	S; HEP	NaCl, (DIL)	X X –		m: ≤ 190 U/l; ≤ 3.20 μkat/l f: ≤ 170 U/l; ≤ 2.85 μkat/l
CK-MB liquiUV																	
12118	R	10 x 10	325	CKMB	Immuno inhibition	U/l; μkat/l	R	CK-MB Calibrator	1	Linear	120	5 - 2000 U/l	S; Li-HEP	NaCl, (DIL)	– – –	CK-MB Control	<24 U/l; <0.4 μkat/l

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CHLORIDE liquicolor																		
10115	C		200	949	Cl	TPTZ method	mmol/l	R	AUTOCAL (Kit standard)	1	Linear	120	0.1 - 500 mmol/l	S; HEP; (CSF; Urine)	dist. water, (DIL-2)	X X –		Serum, plasma 95 - 105 mmol/l; 337 - 383 mg/dl CSF 116 - 127 mmol/l; 411 - 450 mg/dl
COMPLEMENT C3																		
11110	R		2 x 20	164	C3	Immunoturbidimetry	mg/dl; g/l	R	C3/C4/TRF Standard	5	Multi- para- meters	120	2 - 350 mg/dl; 0.02 - 3.5 g/l ⁵⁾	S	NaCl, (DIL); C-CLEAN	– – X		90 - 180 mg/dl; 0.9 - 1.8 g/l
COMPLEMENT C4																		
11113	R		2 x 20	157	C4	Immunoturbidimetry	mg/dl; g/l	R	C3/C4/TRF Standard	5	Multi- para- meters	120	6 - 120 mg/dl; 0.06 - 1.2 g/l ⁵⁾	S	NaCl, (DIL); C-CLEAN	– – X		20 - 50 mg/dl; 0.2 - 0.5 g/l
CREATININE (enzym) liquicolor																		
10053	C		80	276	CREA-2	Enzymatic	mg/dl; µmol/l	R	AUTOCAL (Kit standard)	1	Linear	96	0.1 - 30 mg/dl	S; HEP	NaCl, (DIL)	X X –		m: 0.64 - 1.19 mg/dl; 57 - 105 µmol/l f: 0.40 - 1.00 mg/dl; 35 - 88 µmol/l
CRP																		
11241	R		1 x 10	186	CRP	Immunoturbidimetry	mg/dl; mg/l	R	CRP Standard	6	Poly- linear	120	2 - 160 mg/l ⁵⁾	S; EDTA; HEP	NaCl, (DIL); C-CLEAN	– – X		≤0.5 mg/dl; ≤5 mg/l
CYSTATIN-C liquidirect																		
11150	R		40	133	CYSTC	Immunoturbidimetry, Latex-enhanced	mg/dl; mg/l	R	CYSTATIN-C Calibrator Set	6	Multi- para- meters	24	0.2 - 8.0 mg/l	S	NaCl, (DIL); C-CLEAN	– – –	CYSTA- TIN-C Control	m: 0.08 - 0.13 mg/dl; 0.79 - 1.34 mg/l f: 0.08 - 0.14 mg/dl; 0.75 -1.35 mg/l
gamma-GT liquicolor																		
12213	R	M	16 x 5	107	GGT	gamma-Glutamyl- 3carboxy-4-nitroanili- de, 37°C, IFCC	U/l; µkat/l	R	AUTOCAL	1	Linear	120	2 - 1500 U/l	S; EDTA; HEP	NaCl, (DIL)	X X –		m: <60 U/l; <1.0 µkat/l f: <40 U/l; <0.65 µkat/l
12013			10 x 10	289														
12023			8 x 50	1.653														
12033			4 x 250	4.382														
GLUCOSE liquicolor																		
10121	C		1000	3.994	GLUC	GOD	mg/dl; mmol/l	R	AUTOCAL (Kit standard)	1	Linear	120	1 - 500 mg/dl	S; EDTA; HEP ¹⁾	NaCl, (DIL)	X X –		60 - 95 mg/dl*; 3.3 - 5.3 mmol/l* *fasting
10260			4 x 100	1.576														

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GLUCOSE liquiUV ^{mono}																		
10786	C		1 x 1000	3.566	GLUC2	Hexokinase	mg/dl; mmol/l	R	AUTOCAL (Kit standard)	1	Linear	120	1 - 1.000 mg/dl	S; EDTA; HEP ¹	NaCl, (DIL)	X X –		75 - 115 mg/dl; 4.2 - 6.4 mmol/l* *fasting
GOT (ASAT) IFCC mod. liquiUV																		
12211	R	M	16 x 5	120	GOT	Enzymatic, 37°C, IFCC, without P5P	U/l; µkat/l	R	AUTOCAL	1	Linear	120	3 - 700 U/l	S; EDTA; HEP	NaCl, (DIL)	X X –		m: <35 U/l; <0.58 µkat/l f: <31 U/l; <0.52 µkat/l
12011			10 x 10	325														
12021			8 x 50	1.860														
12031			4 x 250	4.930														
GPT (ALAT) IFCC mod. liquiUV																		
12212	R	M	16 x 5	120	GPT	Enzymatic, 37°C, IFCC, without P5P	U/l; µkat/l	R	AUTOCAL	1	Linear	120	2 - 500 U/l	S; EDTA; HEP	NaCl, (DIL)	X X –		m: <45 U/l; <0.74 µkat/l f: <34 U/l; <0.56 µkat/l
12012			10 x 10	325														
12022			8 x 50	1.860														
12032			4 x 250	4.930														
HbA1c liquidirect																		
10770	R		40	169	HbA1c	Immunologic assay	mmol/mol Hb	R ³⁾	HbA1c liquidirect Calibrator Set	5	Multi- para- meters	24	0 - 145 mmol/ mol Hb	whole blood (EDTA)	NaCl, (DIL); C-CLEAN	– – –	HbA1c li- quidirect Control Set	<6% HbA1c; <42 mmol/mol Hb
HDL CHOLESTEROL liquicolor																		
10084	C		80	257	HDL-C	Homogenous enzymatic assay	mg/dl; mmol/l	R	AUTOCAL (Kit calibrator)	1	Linear	120	5 - 220 mg/dl	S; EDTA; HEP	NaCl, (DIL)	– X –		>60 mg/dl; >1.54 mmol/l
10284			200	657														
HOMOCYSTEINE liquiUV																		
11140	C		34	143	HCY	Enzymatic	µmol/l	R	HOMOCYSTEINE Calibrator Set	2	Linear Regres- sion	96	2.9 - 40 µmol/l	S; HEP	NaCl, (DIL)	– – –	HOMO- CYS- TEINE Controls	≤60 years: 10 - 12 µmol/l >60 yers: 5 - 20 µmol/l
IMMUNOGLOBULINS direct IgA																		
11501	R		2 x 10	310	IgA	Immunoturbidimetry	mg/dl; g/l	R	Immunoglobulins direct IgA/IgG/IgM Calibrator Set	6	Multi- para- meters	120	20 - 650 mg/dl	S	NaCl, (DIL); C-CLEAN	– X X		70 - 500 mg/dl; 0.70 - 5.0 g/l

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IMMUNOGLOBULINS direct IgG																	
11502	R	2 x 10	286	IgG	Immunoturbidimetry	mg/dl; g/l	R	Immunoglobulins direct IgA/IgG/IgM Calibrator Set	6	Multi- para- meters	120	9 - 3000 mg/dl	S	NaCl, (DIL); C-CLEAN	– X X		700 - 1600 mg/dl; 7.0 - 16.0 g/l
IMMUNOGLOBULINS direct IgM																	
11503	R	2 x 10	310	IgM	Immunoturbidimetry	mg/dl; g/l	R	Immunoglobulins direct IgA/IgG/IgM Calibrator Set	6	Multi- para- meters	120	3 - 400 mg/dl	S	NaCl, (DIL); C-CLEAN	– X X		m: 40 - 230 mg/dl; 0.4 - 2.3 g/l f: 40 - 280 mg/dl; 0.4 - 2.8 g/l
IRON liquicolor																	
10229	C	2 x 30	279	Fe-2	CAB	µg/dl; µmol/l	R	AUTOCAL (Kit standard)	1	Linear	120	8 - 1200 µg/dl	S; HEP	NaCl, (DIL)	X X –		m: 59 - 148 µg/dl; 10.6 - 28.3 µmol/l f: 37 - 145 µg/dl; 6.6 - 26 µmol/l
10230		2 x 100	946														
IRON TPTZ liquicolor																	
12290	C	2 x 25	172	Fe	TPTZ	µg/dl; µmol/l	R	AUTOCAL (Kit standard)	1	Linear	120	0 - 1200 µg/dl	S; HEP	NaCl, (DIL)	X X –		m: 59 - 158 µg/dl; 10.6 - 28.3 µmol/l f: 37 - 145 µg/dl; 6.6 - 26.0 µmol/l
12291		2 x 100	772														
LDH SCE mod. liquiUV																	
12214	R	M	16 x 5	96	LDH-P	U/l; µkat/l	R	AUTOCAL	1	Linear	120	10 - 1600 U/l	S; EDTA; HEP	NaCl, (DIL)	X X –		225 - 450 U/l; 3.75 - 7.50 µkat/l
12014			10 x 10	260													
12024			8 x 50	1.488													
LDL CHOLESTEROL liquicolor																	
10094	C	80	276	LDL-C	Homogenous enzymatic assay	mg/dl; mmol/l	R	AUTOCAL (Kit calibrator)	1	Linear	120	5 - 300 mg/dl	S; EDTA; HEP	NaCl, (DIL)	– X –		≤100 mg/dl; ≤2.59 mmol/l
10294		200	704														
LIPASE liquicolor																	
12006	R	4 x 10	144	LIP	Substrate methylres- orufin, 37°C	U/l; µkat/l	R	AUTOCAL	1	Linear	120	2 - 300 U/l	S; HEP	NaCl, (DIL)	– X –		13 - 60 U/l; 0.2 - 1 µkat/l
12026		6 x 20	516														
MAGNESIUM liquicolor																	
10010	C	2 x 100	789	Mg	Xylidyl blue	mg/dl; mmol/l	R	AUTOCAL (Kit standard)	1	Linear	12	0.2 - 5.0 mg/dl	S; HEP	NaCl, (DIL)	X X –		1.7 - 2.6 mg/dl; 0.70 - 1.05 mmol/l

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MICROALBUMIN																	
11120	R	1 x 5	123	MALB	Immunoturbidimetry	mg/l	R	MICROALBUMIN Standard	6	Multi-parameters	120	5 - 350 mg/l	Urine	NaCl, (DIL)	– – –	Commercial urine controls	m: <30 mg/24h; <30 mg/g Creatinine; ≤ 2.5 mg/mmol Creatinine f: <30 mg/24h; <30 mg/g Creatinine; ≤ 3.5 mg/mmol Creatinine
PANCREAS-AMYLASE liquicolor																	
12009	R	4 x 10	180	PAMY	EPS-G7, 37°C	U/l; μkat/l	R	AUTOCAL	1	Linear	120	5 - 2300 U/l	S; EDTA; HEP; (Urine)		X X –		Serum, plasma <53 U/l; <0.88 mkat/l; Urine m: < 356 U/l; < 5.93 mkat/l f: < 319 U/l; < 5.32 μkat/l
12029		6 x 20	645														
PHOSPHORUS liquirapid																	
10027	C	2 x 100	946	PHOS	Molybdate (UV)	mg/dl; mmol/l	R	AUTOCAL (Kit standard)	1	Linear	120	0 - 30 mg/dl	S	dist. water, (DIL-2)	X X –		2.6 - 4.5 mg/dl; 0.84 - 1.45 mmol/l
POTASSIUM liquiUV																	
10120	C	40	155	K-e	Enzymatic	mmol/l	R	Kit Standard	2	Linear	72	2 – 8 mmol/l	S; Li-HEP	dist. water, (DIL-2)	X X –		3.6 - 5.5 mmol/l
RHEUMATOID FACTORS																	
11261PA	R	2 x 50	310	RF-2	Immunoturbidimetry, Latex-enhanced	IU/ml; kIU/l	R ⁴⁾	RF Standard	4	Poly-linear	168	17 - 90 IU/ml; 17 - 90 kU/ml	S	NaCl, (DIL) Special Wash sol.	– – X		≤20 IU/ml; ≤20 kIU/l
SODIUM liquicolor																	
10113	C	40	169	Na-e	Enzymatic	mmol/l	R	Kit Standard	2	Linear	120	90 – 180 mmol/l	S; Li-HEP	dist. water, (DIL-2)	X X –		135 - 145 mmol/l
TOTAL PROTEIN liquicolor																	
157004	C	4 x 100	1.576	TP	Biuret	g/dl; g/l	R	AUTOCAL (Kit standard)	1	Linear	120	0.2 - 12 g/dl	S; EDTA; HEP	NaCl, (DIL)	X X –		6.6 - 8.3 g/dl; 66 - 83 g/l
10570		1 x 1000	3.994														

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TRANSFERRIN																	
11115	R	2 x 30	237	TRF	Immunoturbidimetry	mg/dl; g/l	R	C3/C4/TRF Standard	6	Multi-parameters	120	0 - 800 mg/dl; 0 - 8 g/l ⁵	S	NaCl, (DIL); C-CLEAN	– – X		170 - 340 mg/dl; 1.70 - 3.40 g/l
TRIGLYCERIDES liquicolor^{mono}																	
10720P	C	9 x 15	486	TG	GPO POD	mg/dl; mmol/l	R	AUTOCAL (Kit standard)	1	Linear	120	10 - 1000 mg/dl	S; EDTA; HEP	NaCl, (DIL)	X X –		≤150 mg/dl; ≤1.71 mmol/l
10724		4 x 100	1.576														
10725		3 x 250	2.982														
UREA liquiUV																	
10521	C	8 x 50	1.488	UREA	Urease (UV)	mg/dl; mmol/l	R	AUTOCAL (Kit standard)	1	Linear	120	5 - 350 mg/dl	S; EDTA; HEP ² ; (Urine)	NaCl, (DIL)	X X –		m: 18 - 55 mg/dl; 3.0 - 9.2 mmol/l f: 15 - 43 mg/dl; 2.6 - 7.2 mmol/l
URIC ACID liquicolor^{plus}																	
10694	C	3 x 100	1.158	UA	Uricase	mg/dl; μmol/l	R	AUTOCAL (Kit standard)	1	Linear	120	1 - 25 mg/dl	S; EDTA; HEP	NaCl, (DIL)	X X –		m: 3.6 - 7.0 mg/dl; 214 - 416 μmol/l f: 2.3 - 6.0 mg/dl; 137 - 357 μmol/l
URIC ACID liquicolor																	
10690	C	4 x 30	456	UA-2	Uricase	mg/dl; μmol/l	R	AUTOCAL (Kit standard)	1	Linear	120	1 - 25 mg/dl	S; EDTA; HEP	NaCl, (DIL)	X X –		Serum, plasma m: 3.4 - 7.0 mg/dl; 200 - 420 μmol/l; f: 2.4 - 5.7 mg/dl; 140 - 340 μmol/l; Urine 250 - 750mg/d; 1.5 - 4.5 mmol/d
10691		4 x 100	1.576														
URINARY TOTAL PROTEIN liquicolor																	
10590	C	3 x 30	419	UTP	Pyrogallol red	mg/l; mg/dl	R	Kit Standard	1	Linear	120	10 – 2000 mg/l	Urine; CSF	NaCl, (DIL); Special Wash sol.	– – –	Com- mercial urine/ CSF controls	Urine 24 - 141 mg/day CSF < 500 mg/l; < 50 mg/dl

1) after separation from cells or stabilized plasma, e.g. sodium fluorid, mannose, 2) except ammonia heparinate, 3) mix R1 gently before place on the analyzer, 4) mix R2 gently before place on the analyzer, 5) LOT-specific range
6) Sample Type, S = Serum, P = Plasma, EDTA, HEP = Heparin plasma, CITRATE, Urine, CSF = Cerebrospinal fluid, 7) onboard stabilities are at least like calibration stabilities and depend on HumaStar bottle filling