

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 <sup>6</sup>	Required solutions	HumaTrol N / P SERODOS / SERODOS <sup>plus</sup> TURBIDOS	Other controls	Reference ranges (adults) m = male f = female	
<b>ACID PHOSPHATASE</b>																		
12660	R	M	16 x 2	39	ACP	a-Naphtyl phosphate,	U/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		Hillmann mod. 37°C	µkat/l											
<b>ALBUMIN liquicolor</b>																		
10560	C		1 x 1000	4.285	ALB	Bromcresol green	g/dl;	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			g/l											
<b>ALKALINE PHOSPHATASE liquicolor</b>																		
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
<b>ALKALINE PHOSPHATASE opt. liquicolor</b>																		
12217	R	M	16 x 5	120	ALP-2	DEA buffer, 37°C, GSCC/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														
<b>alpha-AMYLASE liquicolor</b>																		
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														
<b>anti-STREPTOLYSIN O</b>																		
11251P	R		2 x 50	310	ASO	Immunoturbidimetry, Latex-enhanced	IU/ml; kIU/l	R <sup>4</sup>	ASO Standard	1	Linear	120	10 - 800 IU/ml	S	NaCl, (DIL); C-CLEAN	- - X		≤200 IU/ml; ≤200kIU/l
<b>APOLIPOPROTEIN A1</b>																		
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 <sup>5</sup>	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
<b>APOLIPOPROTEIN B</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 <sup>5</sup>	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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<b>auto-BILIRUBIN-D liquicolor</b>																			
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
<b>auto-BILIRUBIN-T liquicolor</b>																			
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
<b>auto-CREATININE liquicolor</b>																			
10052	C	250	986	CREA	Jaffé	mg/dl; µmol/l	R	AUTOCAL (Kit standard)	1	Linear	24	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
<b>CALCIUM liquicolor</b>																			
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
<b>CHOLESTEROL liquicolor</b>																			
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																
<b>CHOLINESTERASE liquicolor</b>																			
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
<b>CK NAC liquiUV</b>																			
12015	R	10 x 10	260	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
<b>CK-MB liquiUV</b>																			
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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<b>CHLORIDE liquicolor</b>																		
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 -		<b>Serum, plasma</b> 95 - 105 mmol/l; 337 - 383 mg/dl <b>CSF</b> 116 - 127 mmol/l; 411 - 450 mg/dl	
<b>COMPLEMENT C3</b>																		
11110	R	2 x 20	164	C3	Immunoturbidimetry	mg/dl; g/l	R	C3/C4/TRF Stan- dard	5	Multi- para- meters	120	2 - 350 mg/dl; 0.02 - 3.5 g/l <sup>5</sup>	S	NaCl, (DIL); C-CLEAN	- - X		90 - 180 mg/dl; 0.9 - 1.8 g/l	
<b>COMPLEMENT C4</b>																		
11113	R	2 x 20	154	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 <sup>5</sup>	S	NaCl, (DIL); C-CLEAN	- - X		20 - 50 mg/dl; 0.2 - 0.5 g/l	
<b>CREATININE (enzym) liquicolor</b>																		
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	
<b>CRP</b>																		
11241	R	1 x 10	186	CRP	Immunoturbidimetry	mg/dl; mg/l	R	CRP Standard	6	Poly- linear	120	2 - 160 mg/l <sup>5</sup>	S; EDTA; HEP	NaCl, (DIL); C-CLEAN	- - X		≤0.5 mg/dl; ≤5 mg/l	
<b>CYSTATIN-C liquidirect</b>																		
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	- - -	CYSTATIN-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	
<b>gamma-GT liquicolor</b>																		
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														
<b>GLUCOSE liquicolor</b>																		
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 <sup>1</sup>	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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<b>GLUCOSE liquiUV<sup>mono</sup></b>																	
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 <sup>1</sup>	NaCl, (DIL)	X X -		75 - 115 mg/dl; 4.2 - 6.4 mmol/l* *fasting
<b>GOT (ASAT) IFCC mod. liquiUV</b>																	
12211	R	M	16 x 5	120	GOT	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													
<b>GPT (ALAT) IFCC mod. liquiUV</b>																	
12212	R	M	16 x 5	120	GPT	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													
<b>HbA1c liquidirect</b>																	
10770	R		40	169	HbA1c	mmol/mol Hb	R <sup>3)</sup>	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
<b>HDL CHOLESTEROL liquicolor</b>																	
10084	C		80	257	HDL-C	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													
<b>HOMOCYSTEINE liquiUV</b>																	
11140	C		34	143	HCY	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
<b>IMMUNOGLOBULINS direct IgA</b>																	
11501	R		2 x 10	310	IgA	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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<b>IMMUNOGLOBULINS direct IgG</b>																				
11502	R	2 x 10	286	IgG	Immunoturbidimetry	mg/dl; g/l	R	Immunoglobulins direct IgA/IgG/IgM Calibrator Set	6	Multi-parameters	120	9 - 3000 mg/dl	S	NaCl, (DIL); C-CLEAN	-	X	X		700 - 1600 mg/dl; 7.0 - 16.0 g/l	
<b>IMMUNOGLOBULINS direct IgM</b>																				
11503	R	2 x 10	310	IgM	Immunoturbidimetry	mg/dl; g/l	R	Immunoglobulins direct IgA/IgG/IgM Calibrator Set	6	Multi-parameters	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	
<b>IRON liquicolor</b>																				
10229	C	2 x 30	293	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	993																	
<b>IRON TPTZ liquicolor</b>																				
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																	
<b>LDH SCE mod. liquiUV</b>																				
12214	R	M	16 x 5	96	LDH-P	Substrate pyruvate, 37°C, SCE	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																
<b>LDL CHOLESTEROL liquicolor</b>																				
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																	
<b>LIPASE liquicolor</b>																				
12006	R	4 x 10	144	LIP	Substrate methylresorufin, 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																	
<b>MAGNESIUM liquicolor</b>																				
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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<b>MICROALBUMIN</b>																	
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
<b>PANCREAS-AMYLASE liquicolor</b>																	
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 -		<b>Serum, plasma</b> <53 U/l; <0.88 mkat/l; <b>Urine</b> m: < 356 U/l; < 5.93 mkat/l f: < 319 U/l; < 5.32 μkat/l
12029		6 x 20	645														
<b>PHOSPHORUS liquirapid</b>																	
10027	C	2 x 100	794	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
<b>POTASSIUM liquiUV</b>																	
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
<b>RHEUMATOID FACTORS</b>																	
11261PA	R	2 x 50	310	RF-2	Immunoturbidimetry, Latex-enhanced	IU/ml; kIU/l	R <sup>4</sup>	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
<b>SODIUM liquicolor</b>																	
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
<b>TOTAL PROTEIN liquicolor</b>																	
157004	C	4 x 100	1.576	TP	Biuret	g/dl; g/l	R	AUTOCAL (Kit standard)	1	Linear	120	0.2 - 17 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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<b>TRANSFERRIN</b>																			
11115	R	2 x 30	234	TRF	Immunoturbidimetry	mg/dl; g/l	R	C3/C4/TRF Standard	6	Multi-parameters	120	0 - 800 mg/dl; 0 - 8 g/l <sup>5</sup>	S	NaCl, (DIL); C-CLEAN	-	-	X		170 - 340 mg/dl; 1.70 - 3.40 g/l
<b>TRIGLYCERIDES liquicolor<sup>mono</sup></b>																			
10720P	C	9 x 15	486	TG	GPO POD	mg/dl; mmol/l	R	AUTOCAL (Kit standard)	1	Linear	120	5 - 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																
<b>UREA liquiUV</b>																			
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 <sup>2</sup> ; (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
<b>URIC ACID liquicolor<sup>plus</sup></b>																			
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
<b>URIC ACID liquicolor</b>																			
10690	C	4 x 30	570	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	-		<b>Serum, plasma</b> m: 3.4 - 7.0 mg/dl; 200 - 420 μmol/l; f: 2.4 - 5.7 mg/dl; 140 - 340 μmol/l; <b>Urine</b> 250 - 750mg/d; 1.5 - 4.5 mmol/d
10691		4 x 100	1.970																
<b>URINARY TOTAL PROTEIN liquicolor</b>																			
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	<b>Urine</b> 24 - 141 mg/day <b>CSF</b> < 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