

Keul-o-trol RR Normal (BOV ASY CONTROL 2)

Art.-Nr.: KG1026 Ch.-B.: 367SN Inhalt 20 x 5ml Verw. Bis: 2011-11

COBAS INTEGRA		Bereich			
Parameter	Einheit	Zielwert	Von	Bis	Methoden
Albumin	g/l	42.5	36.1	48.9	Bromocresol Green
	g/dl	4.25	3.61	4.89	
Alkaline Phosphatase	U/l	101	86	116	AMP optimised to IFCC 37°C
	U/l	79	67	90	AMP optimised to IFCC 30°C
	U/l	65	55	74	AMP optimised to IFCC 25°C
ALT (GPT)	U/l	57	46	68	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	42	34	50	Tris buffer no P5P IFCC/SFBC 30°C
	U/l	32	26	38	Tris buffer no P5P IFCC/SFBC 25°C
Amylase Total	U/l	106	90	122	Roche liquid stable pNPG7 37°C
AST (GOT)	U/l	38	30	46	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	26	20	32	Tris buffer no P5P IFCC/SFBC 30°C
	U/l	18	14	22	Tris buffer no P5P IFCC/SFBC 25°C
Bicarbonate	mmol/l	19.7	15.6	23.8	Enzymatic
Bilirubin Direct	µmol/l	13.7	10.8	16.6	Diazo with Sulphanilic Acid
	mg/dl	0.801	0.632	0.970	
Bilirubin Total	µmol/l	23.3	18.4	28.2	Diazo with Sulphanilic Acid
	mg/dl	1.36	1.08	1.64	
Calcium	mmol/l	2.37	2.13	2.61	Cresolphthalein complexone
	mg/dl	9.50	8.54	10.5	
Chloride	mmol/l	105	98.7	111	ISE indirect
Cholesterol	mmol/l	4.53	3.85	5.21	Cholesterol Oxidase
	mg/dl	175	149	201	
CK Total	U/l	162	133	191	CK-NAC serum start (DGKC) 37°C
	U/l	101	83	119	CK-NAC serum start (DGKC) 30°C
	U/l	69	57	81	CK-NAC serum start (DGKC) 25°C
Creatinine	µmol/l	154	126	182	Alkaline picrate no deproteinization
	mg/dl	1.74	1.42	2.06	
Gamma-GT	U/l	54	46	62	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C
	U/l	43	36	50	Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C
	U/l	33	28	38	Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C
Glucose	mmol/l	5.48	4.66	6.30	Hexokinase
	mg/dl	98.7	84.0	113	
Iron	µmol/l	26.1	21.4	30.8	Colorimetric without ppt.
	µg/dl	146	120	172	
LD (LDH)	U/l	259	220	298	P->L German methods 37°C
	U/l	187	159	215	P->L German methods 30°C
	U/l	131	112	150	P->L German methods 25°C
	U/l	120	102	138	L->P 37°C
	U/l	87	74	100	L->P 30°C
	U/l	61	52	70	L->P 25°C
Magnesium	mmol/l	0.880	0.774	0.986	Chlorphosphonazo III
	mg/dl	2.14	1.88	2.40	

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COBAS INTEGRA		Bereich			
Parameter	Einheit	Zielwert	Von	Bis	Methoden
Phosphate Inorganic	mmol/l	1.28	1.09	1.47	Phosphomolybdate UV
	mg/dl	3.97	3.38	4.56	
Potassium	mmol/l	4.20	3.86	4.54	ISE method - indirect
Protein Total	g/l	59.5	47.6	71.4	Biuret reaction end point
	g/dl	5.95	4.76	7.14	
Sodium	mmol/l	139	131	147	ISE method - indirect
Triglycerides	mmol/l	1.02	0.857	1.18	Lipase/GPO-PAP no correction
	mg/dl	90.3	75.8	105	
Urea	mmol/l	6.22	5.29	7.15	Urease kinetic
	mg/dl	37.4	31.8	43.0	
	mmol/l	6.22	5.29	7.15	BUN
	mg/dl	17.5	14.9	20.1	
Uric Acid (Urate)	mmol/l	0.332	0.286	0.378	Uricase peroxidase with ascorbate oxidase
	mg/dl	5.58	4.80	6.36	

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HITACHI SERIES		Bereich			
Parameter	Einheit	Zielwert	Von	bis	Methoden
Alpha-HBDH	U/l	126	100	152	DGKC 37°C
	U/l	95	76	114	DGKC 30°C
	U/l	71	57	85	DGKC 25°C
Acid Phosphatase (non-prostatic)	U/l	5.54	3.71	7.37	1-Naphthyl Phosphate, Kinetic with Pentane diol Activation 37°C
	U/l	6.90	4.62	9.18	1-Naphthyl Phosphate substrate Kinetic 37°C
Acid Phosphatase (Prostatic)	U/l	15.2	10.2	20.2	1-Naphthyl Phosphate, Kinetic with Pentane diol Activation 37°C
	U/l	9.10	6.10	12.1	1-Naphthyl Phosphate substrate Kinetic 37°C
Acid Phosphatase (Total)	U/l	20.7	13.9	27.5	1-Naphthyl Phosphate, Kinetic with Pentane diol Activation 37°C
	U/l	16.0	10.7	21.3	1-Naphthyl Phosphate substrate Kinetic 37°C
Albumin	g/l	42.2	35.9	48.5	Bromocresol Green
	g/dl	4.22	3.59	4.85	
Alkaline Phosphatase	U/l	161	137	185	Diethanolamine buffer DEA 37°C
	U/l	125	107	143	Diethanolamine buffer DEA 30°C
	U/l	103	88	118	Diethanolamine buffer DEA 25°C
	U/l	100	85	115	p-Nitrophenylphosphate AMP 37°C
	U/l	78	66	90	p-Nitrophenylphosphate AMP 30°C
	U/l	64	54	74	p-Nitrophenylphosphate AMP 25°C
ALT (GPT)	U/l	58	46	70	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	43	34	52	Tris buffer no P5P IFCC/SFBC 30°C
	U/l	33	26	40	Tris buffer no P5P IFCC/SFBC 25°C
Amylase Total	U/l	114	97	131	2-chloro-pNPG3 37°C
	U/l	106	90	122	Roche liquid stable pNPG7 37°C
	U/l	121	103	139	Randox EPS Liquid 37°C
AST (GOT)	U/l	40	32	48	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	27	22	32	Tris buffer no P5P IFCC/SFBC 30°C
	U/l	19	15	23	Tris buffer no P5P IFCC/SFBC 25°C
Bicarbonate	mmol/l	21.3	16.9	25.7	Enzymatic
Bile Acids	µmol/l	26.6	21.3	31.9	5th Generation Colorimetric
Bilirubin Direct	µmol/l	21.1	16.7	25.5	Diazo with Sulphanilic Acid
	mg/dl	1.23	0.977	1.48	
Bilirubin Total	µmol/l	27.8	22.0	33.6	Diazo with Sulphanilic Acid
	mg/dl	1.63	1.29	1.97	
	µmol/l	25.9	20.5	31.3	Dichlorophenyl Diazonium (DPD)
	mg/dl	1.52	1.20	1.84	
Calcium	mmol/l	2.36	2.12	2.60	Cresolphthalein complexone
	mg/dl	9.46	8.50	10.4	
	mmol/l	2.39	2.15	2.63	Arsenazo III
	mg/dl	9.58	8.62	10.5	
Chloride	mmol/l	101	94.9	107	ISE indirect
Cholesterol	mmol/l	4.49	3.82	5.16	Cholesterol Oxidase
	mg/dl	173	147	199	
CK Total	U/l	163	134	192	CK-NAC serum start (DGKC) 37°C
	U/l	102	84	120	CK-NAC serum start (DGKC) 30°C
	U/l	69	57	81	CK-NAC serum start (DGKC) 25°C

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HITACHI SERIES		Bereich			
Parameter	Einheit	Zielwert	Von	bis	Methoden
CK Total	U/l	167	137	197	CK-NAC (IFCC) 37°C
	U/l	105	86	124	CK-NAC (IFCC) 30°C
	U/l	71	58	84	CK-NAC (IFCC) 25°C
Creatinine	µmol/l	163	134	192	Alkaline picrate no deproteinization
	mg/dl	1.84	1.51	2.17	
Gamma-GT	U/l	57	48	66	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
	U/l	45	38	52	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C
	U/l	35	30	40	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C
	U/l	55	47	63	Gamma glutamyl-4-nitroanilide 37°C
	U/l	43	37	49	Gamma glutamyl-4-nitroanilide 30°C
	U/l	34	29	39	Gamma glutamyl-4-nitroanilide 25°C
Glucose	mmol/l	6.04	5.13	6.95	Glucose oxidase
	mg/dl	109	92.4	126	
Iron	µmol/l	26.3	21.6	31.0	Colorimetric without ppt.
	µg/dl	147	121	173	
LD (LDH)	U/l	243	207	279	P->L German methods 37°C
	U/l	175	149	201	P->L German methods 30°C
	U/l	123	105	141	P->L German methods 25°C
	U/l	119	101	137	L->P Roche/Randox 37°C
	U/l	86	73	99	L->P Roche/Randox 30°C
	U/l	60	51	69	L->P Roche/Randox 25°C
Lipase	U/l	44	35	53	Randox Colorimetric 37°C
Magnesium	mmol/l	0.890	0.783	0.997	Xylidyl Blue
	mg/dl	2.16	1.90	2.42	
Phosphate Inorganic	mmol/l	1.25	1.06	1.44	Phosphomolybdate UV
	mg/dl	3.88	3.29	4.47	
Potassium	mmol/l	4.36	4.01	4.71	ISE method - indirect
Protein Total	g/l	62.3	49.8	74.8	Biuret reaction end point
	g/dl	6.23	4.98	7.48	
Sodium	mmol/l	143	134	152	ISE method - indirect
TIBC	µmol/l	33.7	26.6	40.8	Randox Direct
	µg/dl	188	149	228	
Triglycerides	mmol/l	1.12	0.941	1.30	Lipase/GPO-PAP no correction
	mg/dl	99.1	83.3	115	
Urea	mmol/l	6.90	5.87	7.94	Urease kinetic
	mg/dl	41.5	35.3	47.7	
	mmol/l	6.90	5.87	7.94	BUN
	mg/dl	19.4	16.5	22.3	
Uric Acid (Urate)	mmol/l	0.318	0.273	0.363	Uricase peroxidase with ascorbate oxidase
	mg/dl	5.34	4.59	6.09	

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MEAN OF ALL INSTRUMENTS

Bereich

Parameter	Einheit	Zielwert	Von	bis	Methoden
Alpha-HBDH	U/l	126	100	152	DGKC 37°C
	U/l	95	76	115	DGKC 30°C
	U/l	71	57	86	DGKC 25°C
Acid Phosphatase (non-prostatic)	U/l	6.90	4.62	9.18	1-Naphthyl Phosphate substrate Kinetic 37°C
	U/l	5.54	3.71	7.37	1-Naphthyl Phosphate, Kinetic with Pentane diol Activation 37°C
Acid Phosphatase (Prostatic)	U/l	9.10	6.10	12.1	1-Naphthyl Phosphate substrate Kinetic 37°C
	U/l	15.2	10.2	20.2	1-Naphthyl Phosphate, Kinetic with Pentane diol Activation 37°C
Acid Phosphatase (Total)	U/l	16.0	10.7	21.3	1-Naphthyl Phosphate substrate Kinetic 37°C
	U/l	20.7	13.9	27.5	1-Naphthyl Phosphate, Kinetic with Pentane diol Activation 37°C
Albumin	g/l	39.8	33.8	45.8	Bromocresol Green
	g/dl	3.98	3.38	4.58	
	g/l	19.4	16.5	22.3	Bromocresol Purple
	g/dl	1.94	1.65	2.23	
	g/l	37.3	31.7	42.9	Vitros 250/500/700/950/5.1 FS
Alkaline Phosphatase	U/l	113	96	130	p-Nitrophenylphosphate AMP 37°C
	U/l	88	75	101	p-Nitrophenylphosphate AMP 30°C
	U/l	72	61	83	p-Nitrophenylphosphate AMP 25°C
	U/l	161	137	185	Diethanolamine buffer DEA 37°C
	U/l	125	107	143	Diethanolamine buffer DEA 30°C
	U/l	103	88	118	Diethanolamine buffer DEA 25°C
	U/l	114	97	131	Vitros 250/500/700/950/5.1 FS 37°C
ALT (GPT)	U/l	54	43	65	Tris buffer with P5P IFCC/SFBC 37°C
	U/l	40	32	48	Tris buffer with P5P IFCC/SFBC 30°C
	U/l	30	24	36	Tris buffer with P5P IFCC/SFBC 25°C
	U/l	57	46	68	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	42	34	50	Tris buffer no P5P IFCC/SFBC 30°C
	U/l	32	26	38	Tris buffer no P5P IFCC/SFBC 25°C
	U/l	62	50	74	Vitros 250/500/700/950/5.1 FS 37°C
Amylase Total	U/l	166	141	191	Randox - Ethylidene pNPG7 37°C
	U/l	115	98	132	bioMerieux 2-chloro-pNPG3 37°C
	U/l	38	32	44	Vitros 250/500/700/950/5.1 FS 37°C
	U/l	121	103	139	Randox EPS Liquid 37°C
	U/l	106	90	122	Roche liquid stable pNPG7 37°C
AST (GOT)	U/l	42	34	50	Tris buffer with P5P IFCC/SFBC 37°C
	U/l	28	23	33	Tris buffer with P5P IFCC/SFBC 30°C
	U/l	20	16	24	Tris buffer with P5P IFCC/SFBC 25°C
	U/l	40	32	48	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	27	22	32	Tris buffer no P5P IFCC/SFBC 30°C
	U/l	19	15	23	Tris buffer no P5P IFCC/SFBC 25°C
	U/l	50	40	60	Vitros 250/500/700/950/5.1 FS 37°C
Bicarbonate	mmol/l	20.0	15.9	24.1	Enzymatic

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Parameter	Einheit	Zielwert	von	bis	Methoden
Bicarbonate	mmol/l	20.6	16.3	24.9	Vitros 250/500/700/950/5.1 FS
Bile Acids	µmol/l	24.1	19.3	28.9	4th Generation Colorimetric
	µmol/l	26.6	21.3	31.9	5th Generation Colorimetric
Bilirubin Direct	µmol/l	21.2	16.7	25.7	Diazo with Sulphanilic Acid
	mg/dl	1.24	0.977	1.50	
	µmol/l	13.3	10.5	16.1	Vitros conjugated from BUBC
	mg/dl	0.778	0.614	0.942	
	µmol/l	12.5	9.88	15.1	Modified Jendrassik
	mg/dl	0.730	0.580	0.880	
Bilirubin Total	µmol/l	27.6	21.8	33.4	Diazo with Sulphanilic Acid
	mg/dl	1.61	1.28	1.94	
	µmol/l	20.8	16.4	25.2	Vitros 250/500/700/950 Total BUBC
	mg/dl	1.22	0.959	1.48	
	µmol/l	25.6	20.2	31.0	Dichlorophenyl Diazonium (DPD)
	mg/dl	1.50	1.18	1.82	
	µmol/l	27.7	21.9	33.5	Diazo with Dichloroaniline (DCA)
	mg/dl	1.62	1.28	1.96	
	µmol/l	29.3	23.1	35.5	Modified Jendrassik
	mg/dl	1.71	1.35	2.08	
Calcium	mmol/l	2.39	2.15	2.63	Arsenazo III
	mg/dl	9.58	8.62	10.5	
	mmol/l	2.34	2.11	2.57	Cresolphthalein complexone
	mg/dl	9.38	8.46	10.3	
	mmol/l	2.24	2.02	2.46	Ion selective electrode
	mg/dl	8.98	8.10	9.86	
	mmol/l	2.38	2.14	2.62	Vitros 250/500/700/950/5.1 FS
	mg/dl	9.54	8.58	10.5	
Chloride	mmol/l	87.0	81.8	92.2	Colorimetric
	mmol/l	102	95.9	108	ISE indirect
	mmol/l	103	96.8	109	Vitros 250/500/700/950/5.1 FS
	mmol/l	100	94.0	106	ISE direct
Cholesterol	mmol/l	4.59	3.90	5.28	Cholesterol Oxidase
	mg/dl	177	151	203	
	mmol/l	4.46	3.79	5.13	Vitros 250/500/700/950/5.1 FS
	mg/dl	172	146	198	
CK Total	U/l	165	135	195	CK-NAC serum start (DGKC) 37°C
	U/l	103	85	121	CK-NAC serum start (DGKC) 30°C
	U/l	70	57	83	CK-NAC serum start (DGKC) 25°C
	U/l	167	137	197	CK-NAC substrate start (DGKC) 37°C
	U/l	105	86	124	CK-NAC substrate start (DGKC) 30°C
	U/l	71	58	84	CK-NAC substrate start (DGKC) 25°C
	U/l	177	145	209	CK-NAC (IFCC) 37°C
	U/l	111	91	131	CK-NAC (IFCC) 30°C
	U/l	75	62	88	CK-NAC (IFCC) 25°C
	U/l	166	136	196	Vitros 250/500/700/950/5.1 FS 37°C
Copper	µmol/l	20.6	17.5	23.7	Colorimetric
	µg/dl	131	111	151	

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Parameter	Einheit	Zielwert	von	bis	Methoden
Cortisol	nmol/l	155	124	186	Siemens Immulite 1000
	µg/dl	5.58	4.46	6.70	
Creatinine	µmol/l	165	135	195	Alkaline picrate no deproteinization
	mg/dl	1.86	1.53	2.19	
	µmol/l	159	130	188	Randox Enzymatic UV method
	mg/dl	1.80	1.47	2.13	
µmol/l	152	125	179	Vitros 250/500/700/950 double slide	
mg/dl	1.72	1.41	2.03		
D-3-Hydroxybutyrate	mmol/l	1.15	0.978	1.32	Tris buffer 100mmol pH 8.5
Free T4	pmol/l	32.4	27.5	37.3	Siemens Immulite 1000
	ng/dl	2.53	2.15	2.91	
	pg/ml	25.3	21.5	29.1	
Gamma-GT	U/l	54	46	62	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C
	U/l	43	36	50	Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C
	U/l	33	28	38	Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C
	U/l	58	49	67	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
	U/l	46	39	53	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C
	U/l	36	30	42	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C
	U/l	55	47	63	Gamma glutamyl-4-nitroanilide 37°C
	U/l	43	37	49	Gamma glutamyl-4-nitroanilide 30°C
	U/l	34	29	39	Gamma glutamyl-4-nitroanilide 25°C
	U/l	72	61	83	Vitros 250/500/700/950/5.1 FS 37°C
	U/l	56	48	64	Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C
	U/l	44	38	50	Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C
U/l	35	30	39	Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C	
GLDH	U/l	16	13	19	Triethanolamine buffer 50 mmol 37°C
	U/l	12	10	14	Triethanolamine buffer 50 mmol 30°C
	U/l	10	8	12	Triethanolamine buffer 50 mmol 25°C
Glucose	mmol/l	5.58	4.74	6.42	Hexokinase
	mg/dl	101	85.4	117	
	mmol/l	5.98	5.08	6.88	Glucose oxidase
	mg/dl	108	91.5	125	
mmol/l	5.73	4.87	6.59	Vitros 250/500/700/950/5.1 FS	
mg/dl	103	87.8	118		
Iron	µmol/l	25.7	21.1	30.3	Colorimetric without ppt.
	µg/dl	144	118	170	
Lactate	mmol/l	3.29	2.63	3.95	Enzymatic Colorimetric
	mg/dl	29.6	23.7	35.6	
LD (LDH)	U/l	257	218	296	P->L German methods 37°C
	U/l	186	157	215	P->L German methods 30°C
	U/l	130	111	149	P->L German methods 25°C
	U/l	112	95	129	L->P 37°C
	U/l	81	69	93	L->P 30°C
	U/l	57	48	66	L->P 25°C
	U/l	406	345	467	Vitros 250/500/700/950/5.1 FS 37°C

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Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden	
LD (LDH)	U/l	119	101	137	L->P Roche/Randox 37°C	
	U/l	86	73	99	L->P Roche/Randox 30°C	
	U/l	60	51	69	L->P Roche/Randox 25°C	
Lipase	U/l	44	35	53	Randox Colorimetric 37°C	
	U/l	228	183	273	Randox Turbidimetric with colipase 37°C	
Lithium	mmol/l	1.23	0.984	1.48	Colorimetric	
	mg/dl	0.854	0.683	1.03		
	mmol/l	1.20	0.960	1.44	Ion selective electrode	
	mg/dl	0.833	0.667	0.999		
Magnesium	mmol/l	0.863	0.759	0.967	Calmagite	
	mg/dl	2.10	1.84	2.36		
	mmol/l	0.880	0.774	0.986	Xylidyl Blue	
	mg/dl	2.14	1.88	2.40		
	mmol/l	0.877	0.772	0.982	Vitros 250/500/700/950/5.1 FS	
	mg/dl	2.13	1.88	2.38		
	NEFA	mmol/l	2.23	1.90	2.56	Colorimetric
	Osmolality	mmol/kg	334	267	401	Freezing point depression
Phosphate Inorganic	mmol/l	1.24	1.05	1.43	Phosphomolybdate UV	
	mg/dl	3.84	3.26	4.42		
	mmol/l	1.24	1.05	1.43	Vitros 250/500/700/950/5.1 FS	
	mg/dl	3.84	3.26	4.42		
Potassium	mmol/l	4.20	3.86	4.54	Enzymatic	
	mmol/l	4.32	3.97	4.67	ISE direct	
	mmol/l	4.26	3.92	4.60	Vitros 250/500/700/950/5.1 FS	
	mmol/l	4.31	3.97	4.65	ISE indirect	
Protein Total	g/l	60.8	48.6	73.0	Biuret reaction end point	
	g/dl	6.08	4.86	7.30		
	g/l	56.0	44.8	67.2	Biuret reaction CX4/5/7	
	g/dl	5.60	4.48	6.72		
	g/l	59.9	47.9	71.9	Vitros 250/500/700/950/5.1 FS	
	g/dl	5.99	4.79	7.19		
PSA Total	ng/ml = µg/l	7.10	5.33	8.88	Abbott Axsym - monoclonal	
Sodium	mmol/l	141	133	149	Enzymatic	
	mmol/l	139	131	147	ISE direct	
	mmol/l	140	132	148	Vitros 250/500/700/950/5.1 FS	
	mmol/l	142	133	151	ISE indirect	
TIBC	µmol/l	33.7	26.6	40.8	Randox Direct	
	µg/dl	188	149	228		
	µmol/l	37.2	29.4	45.0	FE+UIBC(saturation with iron)	
	µg/dl	208	164	252		
Total T3	nmol/l	1.98	1.49	2.48	Siemens Immulite 1000	
	ng/ml	1.29	0.970	1.61		
	ng/dl	129	97.0	161		
Total T4	nmol/l	91.6	68.7	115	Abbott AXSYM	
	µg/dl	7.14	5.36	8.97		
	ng/ml	71.4	53.6	89.7		

BGT

Keul-o-trol RR Normal (BOV ASY CONTROL 2)

Art.-Nr.: KG1026 Ch.-B.: 367SN Inhalt 20 x 5ml Verw. bis: 2011-11

MEAN OF ALL INSTRUMENTS

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Triglycerides	mmol/l	1.09	0.916	1.26	Lipase/GPO-PAP no correction
	mg/dl	96.5	81.1	112	
	mmol/l	1.29	1.08	1.50	Vitros 250/500/700/950/5.1 FS
	mg/dl	114	95.6	132	
Urea	mmol/l	6.54	5.56	7.52	Urease kinetic
	mg/dl	39.3	33.4	45.2	
	mmol/l	8.82	7.50	10.1	Urease hypochlorite
	mg/dl	53.0	45.1	60.9	
	mmol/l	5.89	5.01	6.77	Vitros 250/500/700/950/5.1 FS
	mg/dl	35.4	30.1	40.7	
	mmol/l	5.71	4.85	6.57	Urease Berthelot
	mg/dl	34.3	29.1	39.5	
Uric Acid (Urate)	mmol/l	0.325	0.280	0.371	Uricase Peroxidase with ascorbate oxidase @ 546nm
	mg/dl	5.46	4.70	6.22	
	mmol/l	0.325	0.280	0.371	Uricase peroxidase no ascorbate oxidase
	mg/dl	5.46	4.70	6.22	
	mmol/l	0.325	0.280	0.371	Uricase peroxidase with ascorbate oxidase
	mg/dl	5.46	4.70	6.22	
	mmol/l	0.319	0.270	0.360	Vitros 250/500/700/950/5.1 FS
	mg/dl	5.36	4.54	6.05	
Zinc	µmol/l	19.3	15.4	23.2	Colorimetric with deproteinisation
	µg/dl	126	101	151	

Keul-o-trol RR Normal (BOV ASY CONTROL 2)

Art.-Nr.: KG1026 Ch.-B.: 367SN Inhalt 20 x 5ml Verw. bis: 2011-11

OLYMPUS AU400/500/600/800

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Albumin	g/l	38.7	32.9	44.5	Bromocresol Green
	g/dl	3.87	3.29	4.45	
Alkaline Phosphatase	U/l	112	95	129	p-Nitrophenylphosphate AMP 37°C
	U/l	161	137	185	Diethanolamine buffer DEA 37°C
ALT (GPT)	U/l	57	46	68	Tris buffer no P5P IFCC/SFBC 37°C
Amylase Total	U/l	110	94	127	bioMerieux 2-chloro-pNPG3 37°C
AST (GOT)	U/l	40	32	48	Tris buffer no P5P IFCC/SFBC 37°C
Bicarbonate	mmol/l	20.0	15.9	24.1	Enzymatic
Bilirubin Direct	µmol/l	20.7	16.4	25.0	Diazo with Sulphanilic Acid
	mg/dl	1.21	0.959	1.46	
Bilirubin Total	µmol/l	35.0	27.7	42.4	Diazo with Sulphanilic Acid
	mg/dl	2.05	1.62	2.48	
Calcium	mmol/l	2.40	2.16	2.64	Arsenazo III
	mg/dl	9.62	8.66	10.6	
Chloride	mmol/l	99.9	93.9	106	ISE indirect
Cholesterol	mmol/l	4.57	3.88	5.26	Cholesterol Oxidase
	mg/dl	176	150	202	
CK Total	U/l	182	149	215	CK-NAC (IFCC) 37°C
Creatinine	µmol/l	176	144	208	Alkaline picrate no deproteinization
	mg/dl	1.99	1.63	2.35	
Gamma-GT	U/l	61	52	70	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
Glucose	mmol/l	5.61	4.77	6.45	Hexokinase
	mg/dl	101	86.0	116	
Iron	µmol/l	26.8	22.0	31.6	Colorimetric without ppt.
	µg/dl	150	123	177	
LD (LDH)	U/l	278	236	320	P->L German methods 37°C
Magnesium	mmol/l	0.890	0.783	0.997	Xylidyl Blue
	mg/dl	2.16	1.90	2.42	
Phosphate Inorganic	mmol/l	1.22	1.04	1.40	Phosphomolybdate UV
	mg/dl	3.78	3.22	4.34	
Potassium	mmol/l	4.33	3.98	4.68	ISE method - indirect
Protein Total	g/l	60.7	48.6	72.8	Biuret reaction end point
	g/dl	6.07	4.86	7.28	
Sodium	mmol/l	141	133	149	ISE method - indirect
Triglycerides	mmol/l	1.10	0.924	1.28	Lipase/GPO-PAP no correction
	mg/dl	97.4	81.8	113	
Urea	mmol/l	6.39	5.43	7.35	Urease kinetic
	mg/dl	38.4	32.6	44.2	
	mmol/l	6.39	5.43	7.35	BUN
	mg/dl	17.9	15.2	20.6	
Uric Acid (Urate)	mmol/l	0.325	0.280	0.371	Uricase Peroxidase with ascorbate oxidase @ 546nm
	mg/dl	5.46	4.70	6.2	

Keul-o-trol RR Normal (BOV ASY CONTROL 2)

Art.-Nr.: KG1026 Ch.-B.: 367SN Inhalt 20 x 5ml Verw. bis: 2011-11

RX DAYTONA /IMOLA

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Albumin	g/l	38.8	33.0	44.6	Bromocresol Green
	g/dl	3.88	3.30	4.46	
Alkaline Phosphatase	U/l	116	99	133	p-Nitrophenylphosphate AMP 37°C
	U/l	160	136	184	Diethanolamine buffer DEA 37°C
ALT (GPT)	U/l	54	43	65	Tris buffer no P5P IFCC/SFBC 37°C
Amylase Total	U/l	120	102	138	Randox EPS Liquid 37°C
AST (GOT)	U/l	39	31	47	Tris buffer no P5P IFCC/SFBC 37°C
Bicarbonate	mmol/l	21.0	16.7	25.3	Enzymatic
Bile Acids	µmol/l	27.0	21.6	32.4	5th Generation Colorimetric
Bilirubin Direct	µmol/l	22.1	17.5	26.7	Diazo with Sulphanilic Acid
	mg/dl	1.29	1.02	1.56	
Bilirubin Total	µmol/l	28.2	22.3	34.1	Diazo with Sulphanilic Acid
	mg/dl	1.65	1.30	2.00	
Calcium	mmol/l	2.38	2.14	2.62	Arsenazo III
	mg/dl	9.54	8.58	10.5	
Chloride	mmol/l	100	94.0	106	ISE method - direct
Cholesterol	mmol/l	4.73	4.02	5.44	Cholesterol Oxidase
	mg/dl	183	155	211	
CK Total	U/l	164	134	194	CK-NAC substrate start (DGKC) 37°C
	U/l	172	141	203	CK-NAC serum start (DGKC) 37°C
Creatinine	µmol/l	175	144	207	Alkaline picrate no deproteinization
	mg/dl	1.98	1.63	2.33	
Gamma-GT	U/l	56	48	64	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
Glucose	mmol/l	5.48	4.66	6.30	Hexokinase
	mg/dl	98.7	84.0	113	
	mmol/l	6.01	5.11	6.91	Glucose oxidase
	mg/dl	108	92.1	124	
Iron	µmol/l	24.3	19.9	28.7	Colorimetric without ppt.
	µg/dl	136	111	161	
LD (LDH)	U/l	240	204	276	P->L German methods 37°C
	U/l	118	100	136	L->P 37°C
Lipase	U/l	44	35	53	Randox Colorimetric 37°C
Lithium	mmol/l	1.23	0.980	1.48	Colorimetric
	mg/dl	0.850	0.680	1.03	
Magnesium	mmol/l	0.850	0.748	0.952	Xylidyl Blue
	mg/dl	2.07	1.82	2.32	
Phosphate Inorganic	mmol/l	1.27	1.08	1.46	Phosphomolybdate UV
	mg/dl	3.94	3.35	4.53	
Potassium	mmol/l	4.32	3.97	4.67	ISE method - direct
Protein Total	g/l	60.3	48.2	72.4	Biuret reaction end point
	g/dl	6.03	4.82	7.24	
Sodium	mmol/l	139	131	147	ISE method - direct

Keul-o-trol RR Normal (BOV ASY CONTROL 2)

Art.-Nr.: KG1026 Ch.-B.: 367SN Inhalt 20 x 5ml Verw. bis: 2011-11

RX DAYTONA /IMOLA

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
TIBC	µmol/l	33.7	26.6	40.8	Randox Direct
	µg/dl	188	149	228	
Triglycerides	mmol/l	1.07	0.899	1.24	Lipase/GPO-PAP no correction
	mg/dl	94.7	79.6	110	
Urea	mmol/l	6.47	5.50	7.44	Urease kinetic
	mg/dl	38.9	33.1	44.7	
	mmol/l	6.47	5.50	7.44	BUN
	mg/dl	18.2	15.5	20.9	
Uric Acid (Urate)	mmol/l	0.321	0.280	0.370	Uricase Peroxidase with ascorbate oxidase @ 546nm
	mg/dl	5.39	4.70	6.22	
	mmol/l	0.319	0.270	0.360	Uricase peroxidase no ascorbate oxidase
	mg/dl	5.36	4.54	6.05	

Keul-o-trol RR Normal (BOV ASY CONTROL 2)

Art.-Nr.: KG1026 Ch.-B.: 367SN Inhalt 20 x 5ml Verw. bis: 2011-11

SIEMENS ADVIA 1650

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Albumin	g/l	38.1	32.4	43.8	Bromocresol Green
	g/dl	3.81	3.24	4.38	
Alkaline Phosphatase	U/l	120	102	138	p-Nitrophenylphosphate AMP 37°C
	U/l	160	136	184	Diethanolamine buffer DEA 37°C
ALT (GPT)	U/l	60	48	72	Tris buffer no P5P IFCC/SFBC 37°C
Amylase Total	U/l	111	94	128	pNP Maltotrioxide substrates 37°C
AST (GOT)	U/l	42	34	50	Tris buffer no P5P IFCC/SFBC 37°C
Bicarbonate	mmol/l	20.3	16.1	24.5	Enzymatic
Bilirubin Direct	µmol/l	21.2	16.7	25.7	Diazo with Sulphanilic Acid
	mg/dl	1.24	0.977	1.50	
	µmol/l	18.7	14.8	22.6	Vanadate Oxidation
	mg/dl	1.09	0.870	1.32	
Bilirubin Total	µmol/l	26.9	21.3	32.5	Vanadate Oxidation
	mg/dl	1.57	1.25	1.90	
Calcium	mmol/l	2.33	2.10	2.56	Cresolphthalein complexone
	mg/dl	9.34	8.42	10.3	
	mmol/l	2.38	2.14	2.62	Arsenazo III
	mg/dl	9.54	8.58	10.5	
Chloride	mmol/l	101	94.9	107	ISE indirect
Cholesterol	mmol/l	4.70	4.00	5.41	Cholesterol Oxidase
	mg/dl	181	154	208	
CK Total	U/l	162	133	191	CK-NAC serum start (DGKC) 37°C
Creatinine	µmol/l	161	132	190	Alkaline picrate no deproteinization
	mg/dl	1.82	1.49	2.15	
Gamma-GT	U/l	54	46	62	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
Glucose	mmol/l	5.92	5.03	6.81	Glucose oxidase
	mg/dl	107	90.6	123	
	mmol/l	5.70	4.85	6.56	Hexokinase
	mg/dl	103	87.4	118	
Iron	µmol/l	25.7	21.1	30.3	Colorimetric without ppt.
	µg/dl	144	118	170	
LD (LDH)	U/l	118	100	136	L->P 37°C
	U/l	240	204	276	P->L German methods 37°C
Magnesium	mmol/l	0.876	0.771	0.981	Xylidyl Blue
	mg/dl	2.13	1.87	2.39	
Phosphate Inorganic	mmol/l	1.24	1.05	1.43	Phosphomolybdate UV
	mg/dl	3.84	3.26	4.42	
Potassium	mmol/l	4.31	3.97	4.65	ISE method - indirect
Protein Total	g/l	59.4	47.5	71.3	Biuret reaction end point
	g/dl	5.94	4.75	7.13	
Sodium	mmol/l	143	134	152	ISE method - indirect
Triglycerides	mmol/l	1.07	0.899	1.24	Lipase/GPO-PAP no correction
	mg/dl	94.7	79.6	110	

BGT

Keul-o-trol RR Normal (BOV ASY CONTROL 2)

Art.-Nr.: KG1026 Ch.-B.: 367SN Inhalt 20 x 5ml Verw. bis: 2011-11

SIEMENS ADVIA 1650

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Urea	mmol/l	6.42	5.46	7.38	Urease kinetic
	mg/dl	38.6	32.8	44.4	
	mmol/l	6.42	5.46	7.38	BUN
	mg/dl	18.0	15.3	20.7	
Uric Acid (Urate)	mmol/l	0.328	0.282	0.374	Uricase Peroxidase with ascorbate oxidase @ 546nm
	mg/dl	5.51	4.74	6.28	

Keul-o-trol RR Normal (BOV ASY CONTROL 2)

Art.-Nr.: KG1026 Ch.-B.: 367SN Inhalt 20 x 5ml Verw. bis: 2011-11

SIEMENS DIMENSION		Bereich			
Parameter	Einheit	Zielwert	von	bis	Methoden
Albumin	g/l	18.7	15.9	21.5	Bromocresol Purple
	g/dl	1.87	1.59	2.15	
Alkaline Phosphatase	U/l	101	86	116	p-Nitrophenylphosphate AMP 37°C
	U/l	110	94	127	Randox AMP 37°C
ALT (GPT)	U/l	66	53	79	Tris buffer with P5P IFCC/SFBC 37°C
Amylase Total	U/l	130	111	150	bioMerieux 2-chloro-pNPG3 37°C
AST (GOT)	U/l	46	37	55	Tris buffer with P5P IFCC/SFBC 37°C
Bicarbonate	mmol/l	17.5	13.9	21.1	Enzymatic
Bilirubin Total	µmol/l	26.3	20.8	31.8	Diazo with Sulphanilic Acid
	mg/dl	1.54	1.22	1.86	
Calcium	mmol/l	2.31	2.08	2.54	Cresolphthalein complexone
	mg/dl	9.26	8.34	10.2	
Chloride	mmol/l	103	96.8	109	ISE indirect
Cholesterol	mmol/l	4.44	3.77	5.11	Cholesterol Oxidase
	mg/dl	171	146	196	
CK Total	U/l	165	135	195	Modified Olivier Rosalki 37°C
Creatinine	µmol/l	162	133	191	Alkaline picrate no deproteinization
	mg/dl	1.83	1.50	2.16	
Gamma-GT	U/l	71	60	82	Siemens Dimension (IFCC) 37°C
Glucose	mmol/l	5.59	4.75	6.43	Hexokinase
	mg/dl	101	85.6	116	
Iron	µmol/l	23.4	19.2	27.6	Colorimetric without ppt.
	µg/dl	131	107	155	
LD (LDH)	U/l	99	84	114	L->P 37°C
Magnesium	mmol/l	0.800	0.704	0.896	Methylthymol blue
	mg/dl	1.94	1.71	2.17	
Phosphate Inorganic	mmol/l	1.22	1.04	1.40	Phosphomolybdate UV
	mg/dl	3.78	3.22	4.34	
Potassium	mmol/l	4.32	3.97	4.67	ISE method - indirect
Protein Total	g/l	61.6	49.3	73.9	Biuret reaction end point
	g/dl	6.16	4.93	7.39	
Sodium	mmol/l	142	133	151	ISE method - indirect
Triglycerides	mmol/l	1.10	0.924	1.28	Lipase/GPO-PAP no correction
	mg/dl	97.4	81.8	113	
Urea	mmol/l	6.80	5.78	7.82	Urease kinetic
	mg/dl	40.9	34.7	47.0	
	mmol/l	6.66	5.66	7.66	BUN
	mg/dl	18.7	15.9	21.5	
Uric Acid (Urate)	mmol/l	0.315	0.270	0.360	Uricase 293nm UV
	mg/dl	5.29	4.54	6.05	

Keul-o-trol RR Normal (BOV ASY CONTROL 2)

Art.-Nr.: KG1026 Ch.-B.: 367SN Inhalt 20 x 5ml Verw. bis: 2011-11

Synchron CX4/5/7/9

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Albumin	g/l	21.0	17.9	24.2	Bromocresol Purple
	g/dl	2.10	1.79	2.41	
Alkaline Phosphatase	U/l	111	94	128	p-Nitrophenylphosphate AMP 37°C
	U/l	86	73	99	p-Nitrophenylphosphate AMP 30°C
ALT (GPT)	U/l	50	40	60	Henry 37°C
	U/l	37	30	44	Henry 30°C
Amylase Total	U/l	84	71	97	Beckman maltotetraose 37°C
	U/l	121	103	139	Randox EPS Liquid 37°C
AST (GOT)	U/l	34	27	41	Henry 37°C
	U/l	23	18	28	Henry 30°C
Bilirubin Total	µmol/l	33.3	26.3	40.3	Diazo with Sulphanilic Acid
	mg/dl	1.95	1.54	2.36	
Calcium	mmol/l	2.24	2.02	2.46	Ion selective electrode
	mg/dl	8.98	8.10	9.86	
Cholesterol	mmol/l	4.80	4.08	5.52	Cholesterol Oxidase
	mg/dl	185	157	213	
CK Total	U/l	172	141	203	CK-NAC substrate start (DGKC) 37°C
	U/l	108	88	128	CK-NAC substrate start (DGKC) 30°C
Creatinine	µmol/l	163	134	192	Alkaline picrate no deproteinization
	mg/dl	1.84	1.51	2.17	
Gamma-GT	U/l	55	47	63	Gamma glutamyl-4-nitroanilide 37°C
	U/l	43	37	49	Gamma glutamyl-4-nitroanilide 30°C
Glucose	mmol/l	5.60	4.76	6.44	Hexokinase
	mg/dl	101	85.8	116	
LD (LDH)	U/l	291	247	335	P->L German methods 37°C
	U/l	210	178	242	P->L German methods 30°C
Magnesium	mmol/l	0.863	0.759	0.967	Calmagite
	mg/dl	2.10	1.84	2.36	
Phosphate Inorganic	mmol/l	1.06	0.901	1.22	Phosphomolybdate UV
	mg/dl	3.29	2.79	3.79	
Potassium	mmol/l	4.30	3.96	4.64	ISE method - indirect
Protein Total	g/l	56.0	44.8	67.2	Biuret reaction CX4/5/7
	g/dl	5.60	4.48	6.72	
Sodium	mmol/l	142	133	151	ISE method - indirect
Triglycerides	mmol/l	0.790	0.664	0.916	Lipase/GPO-PAP no correction
	mg/dl	69.9	58.8	81.0	
Urea	mmol/l	6.40	5.44	7.36	Beckman-Conductivity
	mg/dl	38.5	32.7	44.3	
	mmol/l	6.40	5.44	7.36	BUN
	mg/dl	18.0	15.3	20.7	
Uric Acid (Urate)	mmol/l	0.323	0.278	0.368	Uricase Peroxidase with ascorbate oxidase @ 546nm
	mg/dl	5.43	4.67	6.19	