

## Keul-o-trol RR high (BOV ASY CONTROL 3)

Art.-Nr.: KG1032 Ch.-B.: 315SE Inhalt 20 x 5ml Verw. bis: 2010-11

BAYER ADVIA 1650

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Albumin	g/l	47.1	40.0	54.2	Bromocresol Green
	g/dl	4.71	4.00	5.42	
Alkaline Phosphatase	U/l	407	346	468	p-Nitrophenylphosphate AMP 37°C
	U/l	472	401	543	Diethanolamine buffer DEA 37°C
ALT (GPT)	U/l	141	113	169	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	139	111	167	Tris buffer with P5P IFCC/SFBC 37°C
Amylase Total	U/l	503	428	578	pNP Maltotrioxide substrates 37°C
AST (GOT)	U/l	185	148	222	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	210	168	252	Tris buffer with P5P IFCC/SFBC 37°C
Bicarbonate	mmol/l	21.7	17.2	26.2	Enzymatic
Bilirubin Direct	µmol/l	39.0	30.8	47.2	Diazo with Sulphanilic Acid
	mg/dl	2.28	1.80	2.76	
Bilirubin Total	µmol/l	77.8	61.5	94.1	Diazo with Sulphanilic Acid
	mg/dl	4.55	3.60	5.50	
Calcium	mmol/l	3.19	2.87	3.51	Cresolphthalein complexone
	mg/dl	12.8	11.5	14.1	
	mmol/l	3.09	2.78	3.40	Arsenazo III
mg/dl	12.4	11.1	13.6		
Chloride	mmol/l	112	105	119	ISE indirect
Cholesterol	mmol/l	6.47	5.50	7.44	Cholesterol Oxidase
	mg/dl	250	212	288	
CK Total	U/l	439	360	518	CK-NAC serum start (DGKC) 37°C
Creatinine	µmol/l	480	394	566	Alkaline picrate no deproteinization
	mg/dl	5.42	4.45	6.39	
Gamma-GT	U/l	123	105	141	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
Glucose	mmol/l	16.3	13.9	18.7	Glucose oxidase
	mg/dl	294	250	338	
	mmol/l	15.9	13.5	18.3	
mg/dl	287	243	330		
Iron	µmol/l	33.3	27.3	39.3	Colorimetric without ppt.
	µg/dl	186	153	219	
LD (LDH)	U/l	334	284	384	L->P 37°C
	U/l	713	606	820	P->L German methods 37°C
Magnesium	mmol/l	1.44	1.27	1.61	Xylidyl Blue
	mg/dl	3.50	3.09	3.91	
Phosphate Inorganic	mmol/l	2.26	1.92	2.60	Phosphomolybdate UV
	mg/dl	7.01	5.95	8.07	
Potassium	mmol/l	6.48	5.96	7.00	ISE method - indirect
Protein Total	g/l	69.5	63.2	75.8	Biuret reaction end point
	g/dl	6.95	6.32	7.58	
Sodium	mmol/l	155	146	164	ISE method - indirect
Triglycerides	mmol/l	2.66	2.23	3.09	Lipase/GPO-PAP no correction
	mg/dl	235	197	273	

# BGT

## Keul-o-trol RR high (BOV ASY CONTROL 3)

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Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Urea	mmol/l	22.5	19.1	25.9	Urease kinetic
	mg/dl	135	115	155	
Uric Acid (Urate)	mmol/l	0.557	0.479	0.635	Uricase Peroxidase with ascorbate oxidase @ 546nm
	mg/dl	9.36	8.05	10.7	

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Art.-Nr.: KG1032 Ch.-B.: 315SE

Inhalt 20 x 5ml

Verw. bis: 2010-11

### COBAS INTEGRA

### Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Albumin	g/l	53.3	45.3	61.3	Bromocresol Green
	g/dl	5.33	4.53	6.13	
Alkaline Phosphatase	U/l	360	306	414	p-Nitrophenylphosphate AMP 37°C
	U/l	280	238	322	p-Nitrophenylphosphate AMP 30°C
	U/l	230	196	264	p-Nitrophenylphosphate AMP 25°C
ALT (GPT)	U/l	137	110	164	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	101	81	121	Tris buffer no P5P IFCC/SFBC 30°C
	U/l	77	62	92	Tris buffer no P5P IFCC/SFBC 25°C
Amylase Total	U/l	462	393	531	Randox EPS Liquid and BM/Roche EPS Liquid 37°C
AST (GOT)	U/l	181	145	217	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	122	98	146	Tris buffer no P5P IFCC/SFBC 30°C
	U/l	86	69	103	Tris buffer no P5P IFCC/SFBC 25°C
Bicarbonate	mmol/l	20.5	16.3	24.7	Enzymatic
Bilirubin Direct	µmol/l	19.3	15.2	23.4	Diazo with Sulphanilic Acid
	mg/dl	1.13	0.889	1.37	
Bilirubin Total	µmol/l	80.0	63.2	96.8	Diazo with Sulphanilic Acid
	mg/dl	4.68	3.70	5.66	
Calcium	mmol/l	3.24	2.92	3.56	Cresolphthalein complexone
	mg/dl	13.0	11.7	14.3	
Chloride	mmol/l	119	112	126	ISE indirect
Cholesterol	mmol/l	6.38	5.42	7.34	Cholesterol Oxidase
	mg/dl	246	209	283	
CK Total	U/l	435	357	513	CK-NAC serum start (DGKC) 37°C
	U/l	272	223	321	CK-NAC serum start (DGKC) 30°C
	U/l	185	152	218	CK-NAC serum start (DGKC) 25°C
Creatinine	µmol/l	460	377	543	Creatinine PAP method
	mg/dl	5.20	4.26	6.14	
Gamma-GT	U/l	120	102	138	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C
	U/l	95	80	110	Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C
	U/l	74	63	85	Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C
Glucose	mmol/l	14.6	12.4	16.8	Hexokinase
	mg/dl	263	223	303	
Iron	µmol/l	33.3	27.3	39.3	Colorimetric without ppt.
	µg/dl	186	153	219	
LD (LDH)	U/l	734	624	844	P->L German methods 37°C
	U/l	530	451	609	P->L German methods 30°C
	U/l	372	316	428	P->L German methods 25°C
Magnesium	mmol/l	1.40	1.23	1.57	Chlorphosphonazo III
	mg/dl	3.40	2.99	3.81	
Phosphate Inorganic	mmol/l	2.33	1.98	2.68	Phosphomolybdate UV
	mg/dl	7.22	6.14	8.30	
Potassium	mmol/l	6.40	5.89	6.91	ISE method - indirect

## Keul-o-trol RR high (BOV ASY CONTROL 3)

Art.-Nr.: KG1032 Ch.-B.: 315SE Inhalt 20 x 5ml Verw. bis: 2010-11

COBAS INTEGRA

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Protein Total	g/l	70.5	64.2	76.8	Biuret reaction end point
	g/dl	7.05	6.42	7.68	
Sodium	mmol/l	153	144	162	ISE method - indirect
Triglycerides	mmol/l	2.76	2.32	3.20	Lipase/GPO-PAP no correction
	mg/dl	244	205	283	
Urea	mmol/l	23.0	19.6	26.5	Urease kinetic
	mg/dl	138	118	158	
Uric Acid (Urate)	mmol/l	0.540	0.460	0.620	Uricase peroxidase with ascorbate oxidase
	mg/dl	9.07	7.73	10.4	

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Inhalt 20 x 5ml

Verw. bis: 2010-11

### DADE DIMENSION

### Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Albumin	g/l	24.7	21.0	28.4	Bromocresol Purple
	g/dl	2.47	2.10	2.84	
Alkaline Phosphatase	U/l	296	252	340	p-Nitrophenylphosphate AMP 37°C
	U/l	328	279	377	Randox AMP 37°C
ALT (GPT)	U/l	143	114	172	Tris buffer with P5P IFCC/SFBC 37°C
Amylase Total	U/l	625	531	718	bioMerieux 2-chloro-pNPG3 37°C
AST (GOT)	U/l	206	165	247	Tris buffer with P5P IFCC/SFBC 37°C
Bicarbonate	mmol/l	20.5	16.3	24.7	Enzymatic
Bilirubin Direct	µmol/l	18.3	14.5	22.1	Diazo with Sulphanilic Acid
	mg/dl	1.07	0.848	1.29	
Bilirubin Total	µmol/l	75.8	59.9	91.7	Diazo with Sulphanilic Acid
	mg/dl	4.43	3.50	5.36	
Calcium	mmol/l	3.08	2.77	3.39	Cresolphthalein complexone
	mg/dl	12.3	11.1	13.5	
Chloride	mmol/l	120	112	127	ISE indirect
Cholesterol	mmol/l	6.21	5.28	7.14	Cholesterol Oxidase
	mg/dl	240	204	276	
CK Total	U/l	434	356	512	Modified Olivier Rosalki 37°C
Creatinine	µmol/l	524	430	618	Alkaline picrate no deproteinization
	mg/dl	5.92	4.86	6.98	
Gamma-GT	U/l	149	126	171	Dade Dimension (IFCC) 37°C
Glucose	mmol/l	15.1	12.8	17.4	Hexokinase
	mg/dl	272	231	313	
Iron	µmol/l	30.1	24.7	35.5	Colorimetric without ppt.
	µg/dl	168	138	198	
LD (LDH)	U/l	275	234	316	L->P 37°C
Magnesium	mmol/l	1.37	1.21	1.53	Methylthymol blue
	mg/dl	3.33	2.94	3.72	
Phosphate Inorganic	mmol/l	2.27	1.93	2.61	Phosphomolybdate UV
	mg/dl	7.04	5.98	8.10	
Potassium	mmol/l	6.45	5.93	6.97	ISE method - indirect
Protein Total	g/l	70.2	63.9	76.5	Biuret reaction end point
	g/dl	7.02	6.39	7.65	
Sodium	mmol/l	154	145	163	ISE method - indirect
Triglycerides	mmol/l	2.80	2.35	3.25	Lipase/GPO-PAP no correction
	mg/dl	248	208	288	
Urea	mmol/l	23.7	20.1	27.3	BUN
	mg/dl	66.4	56.3	76.4	
Uric Acid (Urate)	mmol/l	0.540	0.460	0.620	Uricase 293nm UV
	mg/dl	9.07	7.73	10.4	

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HITACHI SERIES		Bereich			
Parameter	Einheit	Zielwert	von	bis	Methoden
Alpha-HBDH	U/l	366	289	443	DGKC 37°C
	U/l	276	218	334	DGKC 30°C
	U/l	207	164	251	DGKC 25°C
Acid Phosphatase (non-prostatic)	U/l	14.3	9.55	19.0	1-Naphthyl Phosphate, Kinetic with Pentane diol Activation 37°C
	U/l	15.1	10.1	20.1	1-Naphthyl Phosphate substrate Kinetic 37°C
Acid Phosphatase (Prostatic)	U/l	49.0	32.9	65.2	1-Naphthyl Phosphate, Kinetic with Pentane diol Activation 37°C
	U/l	29.8	20.0	39.6	1-Naphthyl Phosphate substrate Kinetic 37°C
Acid Phosphatase (Total)	U/l	63.3	42.4	84.2	1-Naphthyl Phosphate, Kinetic with Pentane diol Activation 37°C
	U/l	44.9	30.1	59.7	1-Naphthyl Phosphate substrate Kinetic 37°C
Albumin	g/l	51.5	43.8	59.2	Bromocresol Green
	g/dl	5.15	4.38	5.92	
Alkaline Phosphatase	U/l	536	456	616	Diethanolamine buffer DEA 37°C
	U/l	418	355	481	Diethanolamine buffer DEA 30°C
	U/l	343	291	395	Diethanolamine buffer DEA 25°C
	U/l	339	288	390	p-Nitrophenylphosphate AMP 37°C
	U/l	264	224	304	p-Nitrophenylphosphate AMP 30°C
	U/l	217	184	250	p-Nitrophenylphosphate AMP 25°C
ALT (GPT)	U/l	141	113	169	Tris buffer with P5P IFCC/SFBC 37°C
	U/l	104	84	124	Tris buffer with P5P IFCC/SFBC 30°C
	U/l	79	64	94	Tris buffer with P5P IFCC/SFBC 25°C
	U/l	143	114	172	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	106	84	128	Tris buffer no P5P IFCC/SFBC 30°C
	U/l	81	64	98	Tris buffer no P5P IFCC/SFBC 25°C
Amylase Total	U/l	505	429	581	2-chloro-pNPG3 37°C
AST (GOT)	U/l	211	169	253	Tris buffer with P5P IFCC/SFBC 37°C
	U/l	143	114	172	Tris buffer with P5P IFCC/SFBC 30°C
	U/l	100	80	120	Tris buffer with P5P IFCC/SFBC 25°C
	U/l	190	152	228	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	128	103	153	Tris buffer no P5P IFCC/SFBC 30°C
	U/l	90	72	108	Tris buffer no P5P IFCC/SFBC 25°C
Bicarbonate	mmol/l	24.1	19.1	29.1	Enzymatic
Bile Acids	µmol/l	94.6	75.7	114	4th Generation Colorimetric
	µmol/l	76.3	61.0	91.6	5th Generation Colorimetric
Bilirubin Direct	µmol/l	31.3	24.7	37.9	Diazo with Sulphanilic Acid
	mg/dl	1.83	1.44	2.22	
Bilirubin Total	µmol/l	78.5	62.0	95.0	Diazo with Sulphanilic Acid
	mg/dl	4.59	3.63	5.55	
	µmol/l	81.4	64.3	98.5	Dichlorophenyl Diazonium (DPD)
	mg/dl	4.76	3.76	5.76	
Calcium	mmol/l	3.09	2.78	3.40	Cresolphthalein complexone
	mg/dl	12.4	11.1	13.7	
	mmol/l	3.06	2.75	3.37	Arsenazo III
	mg/dl	12.3	11.0	13.5	

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HITACHI SERIES		Bereich			
Parameter	Einheit	Zielwert	von	bis	Methoden
Chloride	mmol/l	113	106	120	ISE indirect
Cholesterol	mmol/l	6.15	5.23	7.07	Cholesterol Oxidase
	mg/dl	237	202	272	
CK Total	U/l	448	367	529	CK-NAC serum start (DGKC) 37°C
	U/l	280	230	330	CK-NAC serum start (DGKC) 30°C
	U/l	190	156	224	CK-NAC serum start (DGKC) 25°C
	U/l	436	358	514	CK-NAC (IFCC) 37°C
	U/l	273	224	322	CK-NAC (IFCC) 30°C
	U/l	185	152	218	CK-NAC (IFCC) 25°C
Creatinine	µmol/l	515	422	608	Alkaline picrate no deproteinization
	mg/dl	5.82	4.77	6.87	
Gamma-GT	U/l	126	107	145	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
	U/l	99	84	114	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C
	U/l	78	66	90	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C
	U/l	120	102	138	Gamma glutamyl-4-nitroanilide 37°C
	U/l	95	80	109	Gamma glutamyl-4-nitroanilide 30°C
	U/l	74	63	85	Gamma glutamyl-4-nitroanilide 25°C
Glucose	mmol/l	15.1	12.8	17.4	Glucose oxidase
	mg/dl	272	231	313	
Iron	µmol/l	32.5	26.7	38.4	Colorimetric without ppt.
	µg/dl	182	149	215	
LD (LDH)	U/l	684	581	787	P->L German methods 37°C
	U/l	494	419	569	P->L German methods 30°C
	U/l	347	295	399	P->L German methods 25°C
	U/l	301	256	346	L->P 37°C
	U/l	217	185	250	L->P 30°C
	U/l	153	130	175	L->P 25°C
Lipase	U/l	152	122	182	Randox Colorimetric 37°C
Magnesium	mmol/l	1.41	1.24	1.58	Xylidyl Blue
	mg/dl	3.43	3.01	3.85	
Phosphate Inorganic	mmol/l	2.39	2.03	2.75	Phosphomolybdate UV
	mg/dl	7.41	6.29	8.53	
Potassium	mmol/l	6.42	5.91	6.93	ISE method - indirect
Protein Total	g/l	70.5	64.2	76.8	Biuret reaction end point
	g/dl	7.05	6.42	7.68	
Sodium	mmol/l	155	146	164	ISE method - indirect
TIBC	µmol/l	34.3	27.1	41.5	Randox Direct
	µg/dl	192	151	232	
Triglycerides	mmol/l	2.76	2.32	3.20	Lipase/GPO-PAP no correction
	mg/dl	244	205	283	
Urea	mmol/l	22.4	19.0	25.8	Urease kinetic
	mg/dl	135	114	156	
Uric Acid (Urate)	mmol/l	0.545	0.469	0.621	Uricase peroxidase with ascorbate oxidase
	mg/dl	9.16	7.88	10.4	

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Inhalt 20 x 5ml

Verw. bis: 2010-11

### MEAN OF ALL INSTRUMENTS

### Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Alpha-HBDH	U/l	366	289	443	DGKC 37°C
	U/l	276	218	334	DGKC 30°C
	U/l	207	164	251	DGKC 25°C
Acid Phosphatase (non-prostatic)	U/l	14.3	9.55	19.0	1-Naphthyl Phosphate, Kinetic with Pentane diol Activation 37°C
	U/l	15.1	10.1	20.1	1-Naphthyl Phosphate substrate Kinetic 37°C
Acid Phosphatase (Prostatic)	U/l	29.8	20.0	39.6	1-Naphthyl Phosphate substrate Kinetic 37°C
	U/l	49.0	32.9	65.2	1-Naphthyl Phosphate, Kinetic with Pentane diol Activation 37°C
Acid Phosphatase (Total)	U/l	44.9	30.1	59.7	1-Naphthyl Phosphate substrate Kinetic 37°C
	U/l	63.3	42.4	84.2	1-Naphthyl Phosphate, Kinetic with Pentane diol Activation 37°C
Albumin	g/l	48.4	41.1	55.7	Bromocresol Green
	g/dl	4.84	4.11	5.57	
	g/l	25.1	21.3	28.9	Bromocresol Purple
	g/dl	2.51	2.13	2.89	
	g/l	56.5	48.0	65.0	Vitros 250/500/700/950/5.1 FS
g/dl	5.65	4.80	6.50		
Alkaline Phosphatase	U/l	385	327	443	p-Nitrophenylphosphate AMP 37°C
	U/l	300	255	345	p-Nitrophenylphosphate AMP 30°C
	U/l	246	209	283	p-Nitrophenylphosphate AMP 25°C
	U/l	503	428	578	Diethanolamine buffer DEA 37°C
	U/l	392	333	451	Diethanolamine buffer DEA 30°C
	U/l	321	273	369	Diethanolamine buffer DEA 25°C
	U/l	379	322	436	Vitros 250/500/700/950/5.1 FS 37°C
ALT (GPT)	U/l	141	113	169	Tris buffer with P5P IFCC/SFBC 37°C
	U/l	104	84	124	Tris buffer with P5P IFCC/SFBC 30°C
	U/l	79	64	94	Tris buffer with P5P IFCC/SFBC 25°C
	U/l	138	110	166	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	102	81	123	Tris buffer no P5P IFCC/SFBC 30°C
	U/l	78	62	94	Tris buffer no P5P IFCC/SFBC 25°C
	U/l	158	126	190	Vitros 250/500/700/950/5.1 FS 37°C
Amylase Total	U/l	538	457	619	Randox - Benzylidene pNPG7 37°C
	U/l	518	440	596	Randox - Ethylidene pNPG7 37°C
	U/l	542	461	623	bioMerieux 2-chloro-pNPG3 37°C
	U/l	568	483	653	Randox EPS Liquid and BM/Roche EPS Liquid 37°C
	U/l	162	138	186	Vitros 250/500/700/950/5.1 FS 37°C
AST (GOT)	U/l	211	169	253	Tris buffer with P5P IFCC/SFBC 37°C
	U/l	143	114	172	Tris buffer with P5P IFCC/SFBC 30°C
	U/l	100	80	120	Tris buffer with P5P IFCC/SFBC 25°C
	U/l	187	150	224	Tris buffer no P5P IFCC/SFBC 37°C
	U/l	126	101	151	Tris buffer no P5P IFCC/SFBC 30°C
	U/l	89	71	107	Tris buffer no P5P IFCC/SFBC 25°C
	U/l	244	195	293	Vitros 250/500/700/950/5.1 FS 37°C
Bicarbonate	mmol/l	21.7	17.2	26.2	Enzymatic



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Bicarbonate	mmol/l	23.4	18.6	28.2	Vitros 250/500/700/950/5.1 FS
Bile Acids	µmol/l	94.6	75.7	114	4th Generation Colorimetric
	µmol/l	76.3	61.0	91.6	5th Generation Colorimetric
Bilirubin Direct	µmol/l	27.6	21.8	33.4	Diazo with Sulphanilic Acid
	mg/dl	1.61	1.28	1.94	
	µmol/l	23.8	18.8	28.8	Modified Jendrassik
	mg/dl	1.39	1.10	1.68	
Bilirubin Total	µmol/l	78.5	62.0	95.0	Diazo with Sulphanilic Acid
	mg/dl	4.59	3.63	5.55	
	µmol/l	60.5	47.8	73.2	Vitros 250/500/700/950 Total BUBC
	mg/dl	3.54	2.80	4.28	
	µmol/l	78.9	62.3	95.5	Dichlorophenyl Diazonium (DPD)
	mg/dl	4.62	3.64	5.60	
	µmol/l	81.4	64.3	98.5	Diazo with Dichloroaniline (DCA)
	mg/dl	4.76	3.76	5.76	
Calcium	µmol/l	78.9	62.3	95.5	Modified Jendrassik
	mg/dl	4.62	3.64	5.59	
	mmol/l	3.06	2.75	3.37	Arsenazo III
	mg/dl	12.3	11.0	13.6	
	mmol/l	3.14	2.83	3.45	Cresolphthalein complexone
	mg/dl	12.6	11.3	13.9	
Chloride	mmol/l	2.87	2.58	3.16	Ion selective electrode
	mg/dl	11.5	10.3	12.7	
	mmol/l	3.05	2.75	3.36	Vitros 250/500/700/950/5.1 FS
	mg/dl	12.2	11.0	13.4	
Chloride	mmol/l	112	105	119	Colorimetric
	mmol/l	116	109	123	ISE indirect
	mmol/l	115	108	122	Vitros 250/500/700/950/5.1 FS
	mmol/l	113	106	120	ISE direct
Cholesterol	mmol/l	6.35	5.40	7.30	Cholesterol Oxidase
	mg/dl	245	208	282	
	mmol/l	6.32	5.37	7.27	Vitros 250/500/700/950/5.1 FS
	mg/dl	244	207	281	
CK Total	U/l	441	362	520	CK-NAC serum start (DGKC) 37°C
	U/l	276	227	325	CK-NAC serum start (DGKC) 30°C
	U/l	187	154	220	CK-NAC serum start (DGKC) 25°C
	U/l	430	353	507	CK-NAC substrate start (DGKC) 37°C
	U/l	269	221	317	CK-NAC substrate start (DGKC) 30°C
	U/l	183	150	216	CK-NAC substrate start (DGKC) 25°C
	U/l	467	383	551	CK-NAC (IFCC) 37°C
	U/l	292	240	344	CK-NAC (IFCC) 30°C
	U/l	198	163	233	CK-NAC (IFCC) 25°C
	U/l	370	303	437	Vitros 250/500/700/950/5.1 FS 37°C
Copper	µmol/l	27.2	23.1	31.3	Colorimetric
	µg/dl	173	147	199	
Cortisol	nmol/l	244	195	293	Chemiluminescence
	µg/dl	8.78	7.02	10.5	

## Keul-o-trol RR high (BOV ASY CONTROL 3)

Art.-Nr.: KG1032 Ch.-B.: 315SE Inhalt 20 x 5ml Verw. bis: 2010-11

### MEAN OF ALL INSTRUMENTS

### Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Creatinine	µmol/l	505	414	596	Alkaline picrate no deproteinization
	mg/dl	5.71	4.68	6.74	
	µmol/l	528	433	623	Randox Enzymatic UV method
	mg/dl	5.97	4.89	7.05	
	µmol/l	365	299	431	Vitros 250/500/700/950 double slide
	mg/dl	4.12	3.38	4.86	
D-3-Hydroxybutyrate	mmol/l	2.40	2.04	2.76	Tris buffer 100mmol pH 8.5
Free T4	pmol/l	51.0	43.4	58.7	DPC Immulite / Immulite 2000
	ng/dl	3.98	3.39	4.58	
	pg/ml	39.8	33.9	45.8	
Gamma-GT	U/l	126	107	145	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C
	U/l	99	84	114	Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C
	U/l	78	66	90	Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C
	U/l	137	116	158	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
	U/l	108	91	125	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C
	U/l	85	72	98	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C
	U/l	120	102	138	Gamma glutamyl-4-nitroanilide 37°C
	U/l	95	80	110	Gamma glutamyl-4-nitroanilide 30°C
	U/l	74	63	85	Gamma glutamyl-4-nitroanilide 25°C
	U/l	144	122	166	Vitros 250/500/700/950/5.1 FS 37°C
	U/l	128	109	147	Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C
U/l	101	86	116	Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C	
U/l	79	67	91	Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C	
GLDH	U/l	22	18	27	Triethanolamine buffer 50 mmol 37°C
	U/l	17	14	20	Triethanolamine buffer 50 mmol 30°C
	U/l	14	11	17	Triethanolamine buffer 50 mmol 25°C
Glucose	mmol/l	15.1	12.8	17.4	Hexokinase
	mg/dl	272	231	313	
	mmol/l	15.6	13.3	17.9	Glucose oxidase
	mg/dl	281	240	322	
mmol/l	15.8	13.4	18.2	Vitros 250/500/700/950/5.1 FS	
mg/dl	285	241	329		
Iron	µmol/l	32.9	27.0	38.8	Colorimetric without ppt.
	µg/dl	184	151	217	
Lactate	mmol/l	3.37	2.70	4.04	Enzymatic Colorimetric
	mg/dl	30.4	24.3	36.4	
LD (LDH)	U/l	733	623	843	P->L German methods 37°C
	U/l	529	450	608	P->L German methods 30°C
	U/l	372	316	428	P->L German methods 25°C
	U/l	301	256	346	L->P 37°C
	U/l	217	185	249	L->P 30°C
	U/l	153	130	176	L->P 25°C
	U/l	1117	949	1285	Vitros 250/500/700/950/5.1 FS 37°C
	U/l	328	279	377	L->P Roche/Randox 37°C
	U/l	237	201	272	L->P Roche/Randox 30°C
U/l	166	141	191	L->P Roche/Randox 25°C	

## Keul-o-trol RR high (BOV ASY CONTROL 3)

Art.-Nr.: KG1032 Ch.-B.: 315SE

Inhalt 20 x 5ml

Verw. bis: 2010-11

### MEAN OF ALL INSTRUMENTS

### Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Lipase	U/l	152	122	182	Randox Colorimetric 37°C
	U/l	828	664	992	Randox Turbidimetric with colipase 37°C
Lithium	mmol/l	1.70	1.50	1.90	Ion selective electrode
	mg/dl	1.18	1.04	1.32	
	mmol/l	1.73	1.52	1.94	Colorimetric
	mg/dl	1.20	1.06	1.34	
Magnesium	mmol/l	1.36	1.20	1.52	Calmagite
	mg/dl	3.30	2.92	3.68	
	mmol/l	1.37	1.21	1.53	Xylidyl Blue
	mg/dl	3.33	2.94	3.72	
	mmol/l	1.39	1.22	1.56	Vitros 250/500/700/950/5.1 FS
	mg/dl	3.38	2.96	3.80	
NEFA	mmol/l	3.18	2.70	3.66	Colorimetric
Osmolality	mmol/kg	446	356	536	Freezing point depression
Phosphate Inorganic	mmol/l	2.29	1.95	2.63	Phosphomolybdate UV
	mg/dl	7.10	6.05	8.15	
	mmol/l	2.24	1.90	2.58	Vitros 250/500/700/950/5.1 FS
	mg/dl	6.94	5.89	7.99	
Potassium	mmol/l	6.46	5.94	6.98	ISE method - indirect
	mmol/l	6.31	5.81	6.81	Enzymatic
	mmol/l	6.37	5.86	6.88	ISE direct
	mmol/l	6.24	5.74	6.74	Vitros 250/500/700/950/5.1 FS
Protein Total	g/l	69.6	63.3	75.9	Biuret reaction end point
	g/dl	6.96	6.33	7.59	
	g/l	64.0	58.2	69.8	Biuret reaction CX4/5/7
	g/dl	6.40	5.82	6.98	
	g/l	71.5	65.1	77.9	Vitros 250/500/700/950/5.1 FS
g/dl	7.15	6.51	7.79		
PSA Total	ng/ml = µg/l	42.0	31.5	52.5	DPC Immulite / Immulite 2000
Sodium	mmol/l	156	147	165	Enzymatic
	mmol/l	154	145	163	ISE direct
	mmol/l	156	147	165	Vitros 250/500/700/950/5.1 FS
	mmol/l	153	144	162	ISE indirect
TIBC	µmol/l	34.3	27.1	41.5	Randox Direct
	µg/dl	192	151	232	
	µmol/l	48.3	38.2	58.4	FE+UIBC(saturation with iron)
	µg/dl	270	214	326	
Total T3	nmol/l	3.50	2.80	4.20	DPC Immulite / Immulite 2000
	ng/ml	2.28	1.83	2.73	
	ng/dl	228	183	273	
Total T4	nmol/l	149	119	179	DPC Immulite / Immulite 2000
	µg/dl	11.6	9.28	14.0	
	ng/ml	116	92.8	140	
Triglycerides	mmol/l	2.74	2.30	3.18	Lipase/GPO-PAP no correction
	mg/dl	242	204	280	

# BGT

## Keul-o-trol RR high (BOV ASY CONTROL 3)

Art.-Nr.: KG1032 Ch.-B.: 315SE Inhalt 20 x 5ml Verw. bis: 2010-11

### MEAN OF ALL INSTRUMENTS

### Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Triglycerides	mmol/l	3.06	2.57	3.55	Vitros 250/500/700/950/5.1 FS
	mg/dl	271	227	315	
Urea	mmol/l	22.5	19.1	25.9	Urease kinetic
	mg/dl	135	115	155	
	mmol/l	20.7	17.6	23.8	Urease hypochlorite
	mg/dl	124	106	142	
	mmol/l	19.6	16.7	22.5	Vitros 250/500/700/950/5.1 FS
	mg/dl	118	100	136	
	mmol/l	22.5	19.1	25.9	BUN
	mg/dl	63.0	53.5	72.5	
Uric Acid (Urate)	mmol/l	0.546	0.470	0.622	Uricase Peroxidase with ascorbate oxidase @ 546nm
	mg/dl	9.17	7.90	10.4	
	mmol/l	0.541	0.465	0.617	Uricase peroxidase no ascorbate oxidase
	mg/dl	9.09	7.81	10.4	
	mmol/l	0.540	0.464	0.616	Uricase peroxidase with ascorbate oxidase
	mg/dl	9.07	7.80	10.3	
	mmol/l	0.554	0.480	0.630	Vitros 250/500/700/950/5.1 FS
	mg/dl	9.31	8.06	10.6	
Zinc	µmol/l	32.4	25.9	38.9	Colorimetric with deproteinisation
	µg/dl	212	169	255	

## Keul-o-trol RR high (BOV ASY CONTROL 3)

Art.-Nr.: KG1032 Ch.-B.: 315SE

Inhalt 20 x 5ml Verw. bis: 2010-11

OLYMPUS AU400/500/600/800

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Albumin	g/l	47.6	40.5	54.7	Bromocresol Green
	g/dl	4.76	4.05	5.47	
Alkaline Phosphatase	U/l	413	351	475	p-Nitrophenylphosphate AMP 37°C
	U/l	634	539	729	Diethanolamine buffer DEA 37°C
ALT (GPT)	U/l	137	109	164	Tris buffer no P5P IFCC/SFBC 37°C
Amylase Total	U/l	561	477	645	bioMerieux 2-chloro-pNPG3 37°C
AST (GOT)	U/l	189	151	226	Tris buffer no P5P IFCC/SFBC 37°C
Bicarbonate	mmol/l	21.2	16.8	25.6	Enzymatic
Bilirubin Direct	µmol/l	23.3	18.4	28.2	Diazo with Sulphanilic Acid
	mg/dl	1.36	1.08	1.64	
Bilirubin Total	µmol/l	78.0	61.6	94.4	Diazo with Sulphanilic Acid
	mg/dl	4.56	3.60	5.52	
Calcium	mmol/l	3.06	2.75	3.37	Arsenazo III
	mg/dl	12.3	11.0	13.6	
Chloride	mmol/l	112	105	119	ISE indirect
Cholesterol	mmol/l	6.37	5.41	7.33	Cholesterol Oxidase
	mg/dl	246	209	283	
CK Total	U/l	478	392	564	CK-NAC (IFCC) 37°C
Creatinine	µmol/l	484	397	571	Alkaline picrate no deproteinization
	mg/dl	5.47	4.49	6.45	
Gamma-GT	U/l	130	111	150	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
	U/l	136	116	156	Gamma glutamyl-4-nitroanilide 37°C
Glucose	mmol/l	15.2	12.9	17.5	Hexokinase
	mg/dl	274	232	316	
Iron	µmol/l	33.4	27.4	39.4	Colorimetric without ppt.
	µg/dl	187	153	221	
LD (LDH)	U/l	781	664	898	P->L German methods 37°C
Magnesium	mmol/l	1.38	1.21	1.55	Xylidyl Blue
	mg/dl	3.35	2.94	3.76	
Phosphate Inorganic	mmol/l	2.30	1.96	2.65	Phosphomolybdate UV
	mg/dl	7.13	6.08	8.18	
Potassium	mmol/l	6.36	5.85	6.87	ISE method - indirect
Protein Total	g/l	68.8	62.6	75.0	Biuret reaction end point
	g/dl	6.88	6.26	7.50	
Sodium	mmol/l	153	144	162	ISE method - indirect
Triglycerides	mmol/l	2.76	2.32	3.20	Lipase/GPO-PAP no correction
	mg/dl	244	205	283	
Urea	mmol/l	22.4	19.0	25.8	Urease kinetic
	mg/dl	135	114	156	
Uric Acid (Urate)	mmol/l	0.526	0.452	0.600	Uricase Peroxidase with ascorbate oxidase @ 546nm
	mg/dl	8.84	7.59	10.1	

## Keul-o-trol RR high (BOV ASY CONTROL 3)

Art.-Nr.: KG1032 Ch.-B.: 315SE Inhalt 20 x 5ml Verw. bis: 2010-11

RX DAYTONA /IMOLA

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Albumin	g/l	47.0	40.0	54.1	Bromocresol Green
	g/dl	4.70	4.00	5.40	
Alkaline Phosphatase	U/l	399	339	459	p-Nitrophenylphosphate AMP 37°C
	U/l	531	451	611	Diethanolamine buffer DEA 37°C
ALT (GPT)	U/l	134	107	161	Tris buffer no P5P IFCC/SFBC 37°C
Amylase Total	U/l	569	484	654	Randox EPS Liquid and BM/Roche EPS Liquid 37°C
AST (GOT)	U/l	191	153	229	Tris buffer no P5P IFCC/SFBC 37°C
Bicarbonate	mmol/l	21.7	17.2	26.2	Enzymatic
Bile Acids	µmol/l	76.5	61.2	91.8	5th Generation Colorimetric
Bilirubin Direct	µmol/l	33.4	26.4	40.4	Diazo with Sulphanilic Acid
	mg/dl	1.95	1.54	2.36	
Bilirubin Total	µmol/l	78.2	61.8	94.6	Diazo with Sulphanilic Acid
	mg/dl	4.57	3.62	5.52	
Calcium	mmol/l	3.11	2.80	3.42	Arsenazo III
	mg/dl	12.5	11.2	13.8	
Chloride	mmol/l	112	105	119	ISE direct
Cholesterol	mmol/l	6.51	5.53	7.49	Cholesterol Oxidase
	mg/dl	251	213	289	
CK Total	U/l	432	354	510	CK-NAC substrate start (DGKC) 37°C
	U/l	432	354	510	CK-NAC serum start (DGKC) 37°C
Creatinine	µmol/l	501	411	591	Alkaline picrate no deproteinization
	mg/dl	5.66	4.64	6.68	
Gamma-GT	U/l	128	109	147	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C
Glucose	mmol/l	15.2	12.9	17.5	Hexokinase
	mg/dl	274	232	316	
	mmol/l	15.5	13.2	17.8	Glucose oxidase
	mg/dl	279	238	320	
Iron	µmol/l	33.5	27.5	39.5	Colorimetric without ppt.
	µg/dl	187	154	220	
LD (LDH)	U/l	672	571	773	P->L German methods 37°C
	U/l	328	279	377	L->P 37°C
Lipase	U/l	146	117	175	Randox Colorimetric 37°C
Lithium	mmol/l	1.64	1.44	1.84	Colorimetric
	mg/dl	1.14	1.00	1.28	
Magnesium	mmol/l	1.30	1.14	1.46	Xylidyl Blue
	mg/dl	3.16	2.77	3.55	
Phosphate Inorganic	mmol/l	2.35	2.00	2.70	Phosphomolybdate UV
	mg/dl	7.29	6.20	8.38	
Potassium	mmol/l	6.31	5.81	6.81	ISE method - direct
Protein Total	g/l	69.4	63.2	75.6	Biuret reaction end point
	g/dl	6.94	6.32	7.56	
Sodium	mmol/l	153	144	162	ISE method - direct

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## Keul-o-trol RR high (BOV ASY CONTROL 3)

Art.-Nr.: KG1032 Ch.-B.: 315SE Inhalt 20 x 5ml Verw. bis: 2010-11

RX DAYTONA /IMOLA

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
TIBC	µmol/l	36.3	28.7	43.9	Randox Direct
	µg/dl	203	160	245	
Triglycerides	mmol/l	2.76	2.32	3.20	Lipase/GPO-PAP no correction
	mg/dl	244	205	283	
Urea	mmol/l	23.0	19.6	26.5	Urease kinetic
	mg/dl	138	118	158	
Uric Acid (Urate)	mmol/l	0.544	0.470	0.620	Uricase Peroxidase with ascorbate oxidase @ 546nm
	mg/dl	9.14	7.90	10.4	

## Keul-o-trol RR high (BOV ASY CONTROL 3)

Art.-Nr.: KG1032 Ch.-B.: 315SE Inhalt 20 x 5ml Verw. bis: 2010-11

Synchron CX4/5/7/9

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Albumin	g/l	26.0	22.1	29.9	Bromocresol Purple
	g/dl	2.60	2.21	2.99	
Alkaline Phosphatase	U/l	394	335	453	p-Nitrophenylphosphate AMP 37°C
	U/l	307	261	353	p-Nitrophenylphosphate AMP 30°C
ALT (GPT)	U/l	117	94	140	Henry 37°C
	U/l	87	70	104	Henry 30°C
Amylase Total	U/l	568	483	653	Randox EPS Liquid 37°C
	U/l	257	218	296	Beckman maltotetraose 37°C
AST (GOT)	U/l	160	128	192	Henry 37°C
	U/l	108	87	130	Henry 30°C
Bicarbonate	mmol/l	21.7	17.2	26.2	Differential rate pH change
Bilirubin Total	µmol/l	79.9	63.1	96.7	Diazo with Sulphanilic Acid
	mg/dl	4.67	3.69	5.65	
Calcium	mmol/l	2.87	2.58	3.16	Ion selective electrode
	mg/dl	11.5	10.3	12.7	
Chloride	mmol/l	116	109	123	ISE indirect
Cholesterol	mmol/l	6.52	5.54	7.50	Cholesterol Oxidase
	mg/dl	252	214	290	
CK Total	U/l	435	357	513	CK-NAC substrate start (DGKC) 37°C
	U/l	272	223	321	CK-NAC substrate start (DGKC) 30°C
Creatinine	µmol/l	485	398	572	Alkaline picrate no deproteinization
	mg/dl	5.48	4.50	6.46	
Gamma-GT	U/l	101	86	116	Gamma glutamyl-4-nitroanilide 37°C
	U/l	80	68	92	Gamma glutamyl-4-nitroanilide 30°C
Glucose	mmol/l	14.6	12.4	16.8	GOD/02-Beckman method
	mg/dl	263	223	303	
Iron	µmol/l	32.9	27.0	38.8	Colorimetric without ppt.
	µg/dl	184	151	217	
LD (LDH)	U/l	819	696	942	P->L German methods 37°C
	U/l	591	503	679	P->L German methods 30°C
	U/l	301	256	346	L->P 37°C
	U/l	217	185	250	L->P 30°C
Magnesium	mmol/l	1.36	1.20	1.52	Calmagite
	mg/dl	3.30	2.92	3.68	
Phosphate Inorganic	mmol/l	2.12	1.80	2.44	Phosphomolybdate UV
	mg/dl	6.57	5.58	7.56	
Potassium	mmol/l	6.17	5.68	6.66	ISE method - indirect
Protein Total	g/l	64.0	58.2	69.8	Biuret reaction CX4/5/7
	g/dl	6.40	5.82	6.98	
Sodium	mmol/l	150	141	159	ISE method - indirect
Triglycerides	mmol/l	1.93	1.62	2.24	Lipase/GPO-PAP no correction
	mg/dl	171	143	199	



# BGT

## Keul-o-trol RR high (BOV ASY CONTROL 3)

Art.-Nr.: KG1032 Ch.-B.: 315SE Inhalt 20 x 5ml Verw. bis: 2010-11

Synchron CX4/5/7/9

Bereich

Parameter	Einheit	Zielwert	von	bis	Methoden
Urea	mmol/l	22.7	19.3	26.1	Beckman-Conductivity
	mg/dl	136	116	156	
Uric Acid (Urate)	mmol/l	0.483	0.415	0.551	Uricase Peroxidase with ascorbate oxidase @ 546nm
	mg/dl	8.11	6.97	9.25	