

Precipath U plus

12149443 160



LOT 305640 Ver.2

2021-05

COBAS INTEGRA 400 plus analyzer

Value sheet Ver.1

Short name / component	Methods	Test-ID	Value	Range	1s	Unit
ALTL Alanine Aminotransferase	IFCC with pyridoxal phosphate serum, plasma	0-595	125 2.09	101 - 149 1.70 - 2.48	8 0.13	U/L μKat/L
ALTL Alanine Aminotransferase	IFCC without pyridoxal phosphate serum, plasma	0-495	123 2.05	102 - 144 1.69 - 2.41	7 0.12	U/L μKat/L
ALB2 Albumin	BCG Gen.2 serum, plasma	0-592	31.8 483 3.18	26.1 - 37.5 396 - 570 2.61 - 3.75	1.9 29 0.19	g/L μmol/L g/dL
ALP2L Alkaline Phosphatase	IFCC acc. to Schumann Gen.2 serum, plasma	0-550	251 4.19	206 - 296 3.44 - 4.94	15 0.25	U/L μKat/L
ALP2S Alkaline Phosphatase	IFCC acc. to Schumann Gen.2 serum, plasma	0-551	251 4.19	206 - 296 3.44 - 4.94	15 0.25	U/L μKat/L
ALP2S Alkaline Phosphatase	IFCC acc. to Schumann Gen.2 primary tube serum, plasma	0-554	251 4.19	206 - 296 3.44 - 4.94	15 0.25	U/L μKat/L
ALP2L Alkaline Phosphatase	IFCC acc. to Tietz Gen.2 serum, plasma	0-550 *	242 4.04	197 - 287 3.32 - 4.76	15 0.24	U/L μKat/L
ALP2S Alkaline Phosphatase	IFCC acc. to Tietz Gen.2 serum, plasma	0-551 *	242 4.04	197 - 287 3.32 - 4.76	15 0.24	U/L μKat/L
ALP2S Alkaline Phosphatase	IFCC acc. to Tietz Gen.2 primary tube serum, plasma	0-554 *	242 4.04	197 - 287 3.32 - 4.76	15 0.24	U/L μKat/L
AMYL2 alpha Amylase	IFCC EPS ver.2 serum, plasma	0-609	199 3.32	163 - 235 2.72 - 3.92	12 0.20	U/L μKat/L
AMYL2 alpha Amylase	IFCC EPS ver.2 urine	0-509	199 3.32	163 - 235 2.72 - 3.92	12 0.20	U/L μKat/L
AMY-P alpha Amylase pancreatic	EPS liquid serum, plasma	0-662	99.5 1.66	81.5 - 117.5 1.36 - 1.96	6.0 0.10	U/L μKat/L

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AMY-P alpha Amylase pancreatic	EPS liquid urine	0-663	99.5 1.66	81.5 - 117.5 1.36 - 1.96	6.0 0.10	U/L μKat/L
ASTL Aspartate Aminotransferase	IFCC with pyridoxal phosphate serum, plasma	0-594	125 2.09	101 - 149 1.70 - 2.48	8 0.13	U/L μKat/L
ASTL Aspartate Aminotransferase	IFCC without pyridoxal phosphate serum, plasma	0-494	122 2.04	101 - 143 1.68 - 2.40	7 0.12	U/L μKat/L
CO2-L Bicarbonate	kinetic liquid serum, plasma	0-625	31.5	25.8 - 37.2	1.9	mmol/L
BIL-D Bilirubin direct	Diazo serum, plasma	0-249	25.0 1.46 14.6	19.0 - 31.0 1.10 - 1.82 11.0 - 18.2	2.0 0.12 1.2	μmol/L mg/dL mg/L
BILD2 Bilirubin direct	Diazo Gen.2 Doumas serum, plasma	0-735	34.7 2.03 20.3	26.3 - 43.1 1.55 - 2.51 15.5 - 25.1	2.8 0.16 1.6	μmol/L mg/dL mg/L
BILT3 Bilirubin total	Gen.3 serum, plasma	0-297	68.2 3.99	55.9 - 80.5 3.27 - 4.71	4.1 0.24	μmol/L mg/dL
BILT3 Bilirubin total	Gen.3 serum, plasma	0-712	68.2 3.99	55.9 - 80.5 3.27 - 4.71	4.1 0.24	μmol/L mg/dL
BUN Blood Urea Nitrogen	Urease/GLDH serum, plasma	0-003	19.4 54.3 0.543	16.4 - 22.4 46.2 - 62.4 0.462 - 0.624	1.0 2.7 0.027	mmol/L mg/dL g/L
CA2 Calcium	5-Nitro-5'-methyl-BAPTA Gen.2 serum, plasma	0-042	3.55 14.2	3.13 - 3.97 12.4 - 16.0	0.14 0.6	mmol/L mg/dL
CL-D Chloride	I.S.E. direct potentiometry serum, plasma	0-403	114 404	105 - 123 368 - 440	3 12	mmol/L mg/dL
CL-I Chloride	I.S.E. indirect potentiometry serum, plasma	0-503	112 397	103 - 121 361 - 433	3 12	mmol/L mg/dL



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CHOL2 Cholesterol	CHOD-PAP Gen.2 stand. Abell-Kendall serum, plasma	0-586	4.81	4.09 - 5.53	0.24	mmol/L
			186	159 - 213	9	mg/dL
			1.86	1.59 - 2.13	0.09	g/L
CHOL2 Cholesterol	CHOD-PAP Gen.2 stand. ID/MS serum, plasma	0-586	4.73	4.01 - 5.45	0.24	mmol/L
			183	156 - 210	9	mg/dL
			1.83	1.56 - 2.10	0.09	g/L
CHE2 Cholinesterase	butrylthiocholine Gen.2 serum, plasma	0-021	5170	4240 - 6100	310	U/L
			86.3	70.7 - 101.9	5.2	μKat/L
			5.17	4.24 - 6.10	0.31	kU/L
CHED2 Cholinesterase	butrylthiocholine Gen.2 serum, plasma	0-019	5170	4240 - 6100	310	U/L
			86.3	70.7 - 101.9	5.2	μKat/L
			5.17	4.24 - 6.10	0.31	kU/L
CK Creatine Kinase	UV acc. to IFCC liquid serum, plasma	0-045	427	349 - 505	26	U/L
			7.13	5.84 - 8.42	0.43	μKat/L
CKL Creatine Kinase	IFCC liquid serum, plasma	0-323	427	349 - 505	26	U/L
			7.13	5.84 - 8.42	0.43	μKat/L
CREJ2 Creatinine	Jaffé Gen.2 compensated serum, plasma	0-445	307	253 - 361	18	μmol/L
			3.47	2.84 - 4.10	0.21	mg/dL
			0.307	0.253 - 0.361	0.018	mmol/L
			34.7	28.4 - 41.0	2.1	mg/L
CREP2 Creatinine	plus ver.2 serum, plasma	0-612	303	249 - 357	18	μmol/L
			3.42	2.79 - 4.05	0.21	mg/dL
			0.303	0.249 - 0.357	0.018	mmol/L
			34.2	27.9 - 40.5	2.1	mg/L
GGT-2 gamma Glutamyltransferase	liquid ver.2 stand. IFCC serum, plasma	0-498	244	199 - 289	15	U/L
			4.07	3.35 - 4.79	0.24	μKat/L
GGT-2 gamma Glutamyltransferase	liquid ver.2 stand. Szasz serum, plasma	0-598	216	177 - 255	13	U/L
			3.61	2.95 - 4.27	0.22	μKat/L



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GLUC2 Glucose	HK CSF	0-413	12.6 227 2.27	10.8 - 14.4 194 - 260 1.94 - 2.60	0.6 11 0.11	mmol/L mg/dL g/L
GLUC2 Glucose	HK serum, plasma	0-213	12.6 227 2.27	10.8 - 14.4 194 - 260 1.94 - 2.60	0.6 11 0.11	mmol/L mg/dL g/L
GLUC2 Glucose	HK urine	0-313	12.6 227 2.27	10.8 - 14.4 194 - 260 1.94 - 2.60	0.6 11 0.11	mmol/L mg/dL g/L
GLUC3 Glucose	HK Gen.3 CSF	0-051	12.6 227 2.27	10.8 - 14.4 194 - 260 1.94 - 2.60	0.6 11 0.11	mmol/L mg/dL g/L
GLUC3 Glucose	HK Gen.3 serum, plasma	0-031	12.6 227 2.27	10.8 - 14.4 194 - 260 1.94 - 2.60	0.6 11 0.11	mmol/L mg/dL g/L
GLUC3 Glucose	HK Gen.3 STAT CSF	0-251	12.6 227 2.27	10.8 - 14.4 194 - 260 1.94 - 2.60	0.6 11 0.11	mmol/L mg/dL g/L
GLUC3 Glucose	HK Gen.3 STAT serum, plasma	0-231	12.6 227 2.27	10.8 - 14.4 194 - 260 1.94 - 2.60	0.6 11 0.11	mmol/L mg/dL g/L
GLUC3 Glucose	HK Gen.3 STAT urine	0-241	12.6 227 2.27	10.8 - 14.4 194 - 260 1.94 - 2.60	0.6 11 0.11	mmol/L mg/dL g/L
GLUC3 Glucose	HK Gen.3 urine	0-141	12.6 227 2.27	10.8 - 14.4 194 - 260 1.94 - 2.60	0.6 11 0.11	mmol/L mg/dL g/L
IRON2 Iron	FerroZine Gen.2 serum, plasma	0-596	42.5 238 2.38	34.7 - 50.3 196 - 280 1.96 - 2.80	2.6 14 0.14	µmol/L µg/dL mg/L



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Short name / component	Methods	Test-ID	Value	Range	1s	Unit
LACT2 Lactate	enzymatic colorimetric test Gen.2 CSF	0-506	3.35 30.2 302	2.75 - 3.95 24.8 - 35.6 248 - 356	0.20 1.8 18	mmol/L mg/dL mg/L
LACT2 Lactate	enzymatic colorimetric test Gen.2 plasma	0-606	3.35 30.2 302	2.75 - 3.95 24.8 - 35.6 248 - 356	0.20 1.8 18	mmol/L mg/dL mg/L
LDHI2 Lactate dehydrogenase	IFCC liquid ver.2 serum, plasma	0-607	320 5.34	263 - 377 4.38 - 6.30	19 0.32	U/L µKat/L
LIPC Lipase	enzymatic colorimetric test serum, plasma	0-052	108 1.80	90 - 126 1.47 - 2.13	6 0.11	U/L µKat/L
LIPC Lipase	enzymatic colorimetric test serum, plasma	0-100	108 1.80	90 - 126 1.47 - 2.13	6 0.11	U/L µKat/L
LI-D Lithium	I.S.E. direct potentiometry serum, plasma	0-404	2.10 1.46	1.86 - 2.34 1.28 - 1.64	0.08 0.06	mmol/L mg/dL
MG Magnesium	Chlorophosphonazo III serum, plasma	0-059	1.36 2.72 3.30	1.21 - 1.51 2.39 - 3.05 2.91 - 3.69	0.05 0.11 0.13	mmol/L mEq/L mg/dL
PHOS2 Phosphate (inorganic)	molybdate UV ver.2 serum, plasma	0-614	2.20 6.82 68.2	1.87 - 2.53 5.80 - 7.84 58.0 - 78.4	0.11 0.34 3.4	mmol/L mg/dL mg/L
K-D Potassium	I.S.E. direct potentiometry serum, plasma	0-402	6.45 25.2	5.88 - 7.02 22.8 - 27.6	0.19 0.8	mmol/L mg/dL
K-I Potassium	I.S.E. indirect potentiometry serum, plasma	0-502	6.07 23.7	5.53 - 6.61 21.6 - 25.8	0.18 0.7	mmol/L mg/dL
Na-D Sodium	I.S.E. direct potentiometry serum, plasma	0-401	157 361	142 - 172 328 - 394	5 11	mmol/L mg/dL
Na-I Sodium	I.S.E. indirect potentiometry serum, plasma	0-501	147 338	135 - 159 308 - 368	4 10	mmol/L mg/dL



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TP2 Total Protein	Biuret Gen.2 monochromatic serum, plasma	0-227	48.9	42.9 - 54.9	2.0	g/L
			4.89	4.29 - 5.49	0.20	g/dL
TP2 Total Protein	Biuret Gen.2 serum, plasma	0-027	45.4	40.0 - 50.8	1.8	g/L
			4.54	4.00 - 5.08	0.18	g/dL
TRIGL Triglycerides	GPO-PAP serum, plasma	0-010	2.63	2.24 - 3.02	0.13	mmol/L
			233	197 - 269	12	mg/dL
			2.33	1.97 - 2.69	0.12	g/L
UIBC Unsaturated Iron-Binding Capacity	FerroZine serum, plasma	0-463	36.4	28.9 - 43.9	2.5	μmol/L
			203	161 - 245	14	μg/dL
			2.03	1.61 - 2.45	0.14	mg/L
UREAL Urea/BUN	Urease/GLDH serum, plasma	0-003	19.4	16.4 - 22.4	1.0	mmol/L
			117	99 - 135	6	mg/dL
			1.17	0.99 - 1.35	0.06	g/L
UA2 Uric Acid	enzymatic colorimetric test ver.2 serum, plasma	0-615	571	484 - 658	29	μmol/L
			9.59	8.15 - 11.03	0.48	mg/dL
			95.9	81.5 - 110.3	4.8	mg/L



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ID/MS

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COBAS INTEGRA 400 plus
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ID/MS

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Abell-Kendall

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Abell-Kendall

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Short name / component	Methods	ACN	Value	Range	1s	Unit
ALTL Alanine Aminotransferase	IFCC without pyridoxal phosphate serum, plasma	685	123 2.05	102 - 144 1.69 - 2.41	7 0.12	U/L μKat/L
ALTL Alanine Aminotransferase	IFCC with pyridoxal phosphate serum, plasma	684	125 2.09	101 - 149 1.70 - 2.48	8 0.13	U/L μKat/L
ALB2 Albumin	BCG Gen.2 serum, plasma	413	31.8 483	26.1 - 37.5 396 - 570	1.9 29	g/L μmol/L
ALP2S Alkaline Phosphatase	IFCC acc. to Schumann Gen.2 serum, plasma	158	251 4.19	206 - 296 3.44 - 4.94	15 0.25	U/L μKat/L
ALP2S Alkaline Phosphatase	IFCC acc. to Tietz Gen.2 serum, plasma	158 *	242 4.04	197 - 287 3.32 - 4.76	15 0.24	U/L μKat/L
AMYL2 alpha Amylase	IFCC EPS ver.2 serum, plasma	570	199 3.32	163 - 235 2.72 - 3.92	12 0.20	U/L μKat/L
AMY-P alpha Amylase pancreatic	EPS liquid serum, plasma	571	99.5 1.66	81.5 - 117.5 1.36 - 1.96	6.0 0.10	U/L μKat/L
ASTL Aspartate Aminotransferase	IFCC without pyridoxal phosphate serum, plasma	687	122 2.04	101 - 143 1.68 - 2.40	7 0.12	U/L μKat/L
ASTLP Aspartate Aminotransferase	IFCC with pyridoxal phosphate serum, plasma	686	125 2.09	101 - 149 1.70 - 2.48	8 0.13	U/L μKat/L
CO2-L Bicarbonate	kinetic liquid serum, plasma	156	31.5 31.5	25.8 - 37.2 25.8 - 37.2	1.9 1.9	mmol/L mEq/L
BILD2 Bilirubin direct	Diazo Gen.2 Doumas serum, plasma	735	34.7 2.03	26.3 - 43.1 1.55 - 2.51	2.8 0.16	μmol/L mg/dL
BILT3 Bilirubin total	Gen.3 serum, plasma	297	68.2 3.99	55.9 - 80.5 3.27 - 4.71	4.1 0.24	μmol/L mg/dL
BILT3 Bilirubin total	Gen.3 serum, plasma	712	68.2 3.99	55.9 - 80.5 3.27 - 4.71	4.1 0.24	μmol/L mg/dL

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Short name / component	Methods	ACN	Value	Range	1s	Unit
BUN Blood Urea Nitrogen	Urease/GLDH serum, plasma	418	19.4 54.3	16.4 - 22.4 46.2 - 62.4	1.0 2.7	mmol/L mg/dL
CA2 Calcium	5-Nitro-5'-methyl-BAPTA serum, plasma	698	3.55 14.2	3.13 - 3.97 12.4 - 16.0	0.14 0.6	mmol/L mg/dL
CL-I Chloride	I.S.E. indirect potentiometry serum, plasma	991	112 397	103 - 121 361 - 433	3 12	mmol/L mg/dL
CHO2A Cholesterol	CHOD-PAP Gen.2 stand. Abell-Kendall serum, plasma	433	4.81 186	4.09 - 5.53 159 - 213	0.24 9	mmol/L mg/dL
CHOL2 Cholesterol	CHOD-PAP Gen.2 stand. ID/MS serum, plasma	798	4.73 183	4.01 - 5.45 156 - 210	0.24 9	mmol/L mg/dL
CK Creatine Kinase	UV acc. to IFCC liquid serum, plasma	550	427 7.13	349 - 505 5.84 - 8.42	26 0.43	U/L μKat/L
CKL Creatine Kinase	IFCC liquid serum, plasma	057	427 7.13	349 - 505 5.84 - 8.42	26 0.43	U/L μKat/L
CREJ2 Creatinine	Jaffé Gen.2 compensated serum, plasma	690	307 3.47	253 - 361 2.84 - 4.10	18 0.21	μmol/L mg/dL
CREP2 Creatinine	plus ver.2 serum, plasma	652	303 3.42	249 - 357 2.79 - 4.05	18 0.21	μmol/L mg/dL
GGT-2 gamma Glutamyltransferase	liquid ver.2 stand. IFCC serum, plasma	220	244 4.07	199 - 289 3.35 - 4.79	15 0.24	U/L μKat/L
GGT-2 gamma Glutamyltransferase	liquid ver.2 stand. Szasz serum, plasma	480	216 3.61	177 - 255 2.95 - 4.27	13 0.22	U/L μKat/L
GLUC2 Glucose	HK serum, plasma	767	12.6 227	10.8 - 14.4 194 - 260	0.6 11	mmol/L mg/dL
IRON2 Iron	FerroZine Gen.2 serum, plasma	661	42.5 238	34.7 - 50.3 196 - 280	2.6 14	μmol/L μg/dL



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LACT2 Lactate	enzymatic colorimetric test Gen.2 plasma	040	3.35 30.2	2.75 - 3.95 24.8 - 35.6	0.20 1.8	mmol/L mg/dL
LDHI2 Lactate dehydrogenase	IFCC liquid ver.2 serum, plasma	080	320 5.34	263 - 377 4.38 - 6.30	19 0.32	U/L μKat/L
LIPC Lipase	enzymatic colorimetric test serum, plasma	789	108 1.80	90 - 126 1.47 - 2.13	6 0.11	U/L μKat/L
LIPC Lipase colorimetric	enzymatic colorimetric test serum, plasma	731	108 1.80	90 - 126 1.47 - 2.13	6 0.11	U/L μKat/L
MG Magnesium	Chlorophosphonazo III serum, plasma	693	1.36 3.30	1.21 - 1.51 2.91 - 3.69	0.05 0.13	mmol/L mg/dL
PHOS2 Phosphate (inorganic)	molybdate UV ver.2 serum, plasma	714	2.20 6.82	1.87 - 2.53 5.80 - 7.84	0.11 0.34	mmol/L mg/dL
K-I Potassium	I.S.E. indirect potentiometry serum, plasma	990	6.07 23.7	5.53 - 6.61 21.6 - 25.8	0.18 0.7	mmol/L mg/dL
Na-I Sodium	I.S.E. indirect potentiometry serum, plasma	989	147 338	135 - 159 308 - 368	4 10	mmol/L mg/dL
TP2 Total Protein	Biuret Gen.2 monochromatic serum, plasma	227	48.9 4.89	42.9 - 54.9 4.29 - 5.49	2.0 0.20	g/L g/dL
TRIGL Triglycerides	GPO-PAP serum, plasma	781	2.63 233	2.24 - 3.02 197 - 269	0.13 12	mmol/L mg/dL
UREAL Urea/BUN	Urease/GLDH serum, plasma	418	19.4 117	16.4 - 22.4 99 - 135	1.0 6	mmol/L mg/dL
UA2 Uric Acid	enzymatic colorimetric test ver.2 serum, plasma	700	571 9.59	484 - 658 8.15 - 11.03	29 0.48	μmol/L mg/dL



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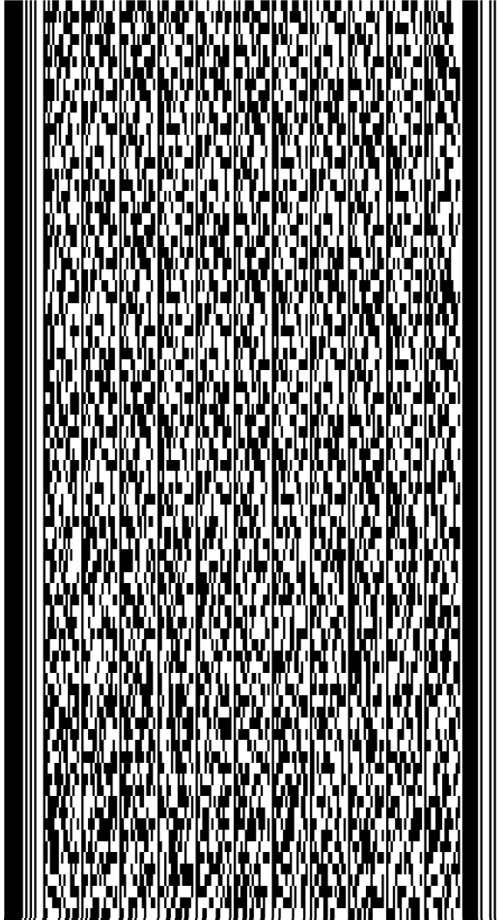
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