

# Precinorm U plus

12149435 160

**LOT** 362745 Ver.1

2021-05

Roche/Hitachi **cobas c** 501/311 analyzers**Value sheet**

Control serum Code: 186488

Diluent Code: 362748

Short name / component	Methods	ACN	Value	Range	1s	Unit
<b>ALTL</b> Alanine Aminotransferase	IFCC without pyridoxal phosphate serum, plasma	685	42.0 0.701	34.5 - 49.5 0.575 - 0.827	2.5 0.042	U/L μKat/L
<b>ALTLP</b> Alanine Aminotransferase	IFCC with pyridoxal phosphate serum, plasma	684	42.2 0.705	34.7 - 49.7 0.579 - 0.831	2.5 0.042	U/L μKat/L
<b>ALB2</b> Albumin	BCG Gen.2 serum, plasma	413	49.4 751 4.94	40.4 - 58.4 616 - 886 4.04 - 5.84	3.0 45 0.30	g/L μmol/L g/dL
<b>ALBP</b> Albumin	BCP serum, plasma	760	38.3 582 3.83	31.4 - 45.2 477 - 687 3.14 - 4.52	2.3 35 0.23	g/L μmol/L g/dL
<b>ALP2L</b> Alkaline Phosphatase	IFCC acc. to Tietz Gen.2 serum, plasma	683 *	85.0 1.42	69.7 - 100.3 1.15 - 1.69	5.1 0.09	U/L μKat/L
<b>ALP2L</b> Alkaline Phosphatase	IFCC acc. to Schumann Gen.2 serum, plasma	683	89.1 1.49	73.2 - 105.0 1.22 - 1.76	5.3 0.09	U/L μKat/L
<b>ALP2S</b> Alkaline Phosphatase	IFCC acc. to Tietz Gen.2 serum, plasma	158 *	85.0 1.42	69.7 - 100.3 1.15 - 1.69	5.1 0.09	U/L μKat/L
<b>ALP2S</b> Alkaline Phosphatase	IFCC acc. to Schumann Gen.2 serum, plasma	158	89.1 1.49	73.2 - 105.0 1.22 - 1.76	5.3 0.09	U/L μKat/L
<b>AMYL2</b> alpha Amylase	IFCC liquid ver.2 serum, plasma, urine	570	76.5 1.28	62.7 - 90.3 1.04 - 1.52	4.6 0.08	U/L μKat/L
<b>AMYL2</b> alpha Amylase	IFCC liquid ver.2 STAT serum, plasma, urine	566	76.5 1.28	62.7 - 90.3 1.04 - 1.52	4.6 0.08	U/L μKat/L
<b>AMY-P</b> alpha Amylase pancreatic	EPS ver.2 serum, plasma, urine	571	35.5 0.593	29.2 - 41.8 0.485 - 0.701	2.1 0.036	U/L μKat/L

\* not encoded in e-barcode

Note: A clinically insignificant difference may be seen between the value(s) listed on the value sheet and the value(s) obtained from the instrument readable data. This is caused by the rounding of value(s) during conversion from the unit in the instrument readable data to the unit that is being used. This may affect the last digit of the value.

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<b>ASTL</b> Aspartate Aminotransferase	IFCC without pyridoxal phosphate serum, plasma	687	38.5 0.643	31.6 - 45.4 0.526 - 0.760	2.3 0.039	U/L μKat/L
<b>ASTL</b> Aspartate Aminotransferase	IFCC without pyridoxal phosphate STAT serum, plasma	587	38.5 0.643	31.6 - 45.4 0.526 - 0.760	2.3 0.039	U/L μKat/L
<b>ASTLP</b> Aspartate Aminotransferase	IFCC with pyridoxal phosphate serum, plasma	686	40.2 0.671	33.0 - 47.4 0.551 - 0.791	2.4 0.040	U/L μKat/L
<b>CO2-L</b> Bicarbonate	kinetic liquid serum, plasma	156	15.6	12.9 - 18.3	0.9	mmol/L
<b>CO2-L</b> Bicarbonate	kinetic liquid STAT serum, plasma	763	15.6	12.9 - 18.3	0.9	mmol/L
<b>BILD2</b> Bilirubin direct	Diazo Gen.2 Doumas serum, plasma	735	10.8 0.632 6.32	8.1 - 13.5 0.479 - 0.785 4.79 - 7.85	0.9 0.051 0.51	μmol/L mg/dL mg/L
<b>BILT3</b> Bilirubin total	Gen.3 serum, plasma	297	17.2 1.01 10.1	14.2 - 20.2 0.83 - 1.19 8.3 - 11.9	1.0 0.06 0.6	μmol/L mg/dL mg/L
<b>BILT3</b> Bilirubin total	Gen.3 serum, plasma	712	17.2 1.01 10.1	14.2 - 20.2 0.83 - 1.19 8.3 - 11.9	1.0 0.06 0.6	μmol/L mg/dL mg/L
<b>BILT3</b> Bilirubin total	Gen.3 serum, plasma STAT	296	17.2 1.01 10.1	14.2 - 20.2 0.83 - 1.19 8.3 - 11.9	1.0 0.06 0.6	μmol/L mg/dL mg/L
<b>BILT3</b> Bilirubin total	Gen.3 serum, plasma STAT	711	17.2 1.01 10.1	14.2 - 20.2 0.83 - 1.19 8.3 - 11.9	1.0 0.06 0.6	μmol/L mg/dL mg/L
<b>UREAL</b> Blood Urea Nitrogen	Urease/GLDH serum, plasma, urine	421	6.43 18.0 0.180	5.47 - 7.39 15.3 - 20.7 0.153 - 0.207	0.32 0.9 0.009	mmol/L mg/dL g/L
<b>UREAL</b> Blood Urea Nitrogen	Urease/GLDH STAT serum, plasma, urine	427	6.43 18.0 0.180	5.47 - 7.39 15.3 - 20.7 0.153 - 0.207	0.32 0.9 0.009	mmol/L mg/dL g/L

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<b>CA2</b> Calcium	5-Nitro-5-methyl-BAPTA serum, plasma, urine	698	2.22	1.95 - 2.49	0.09	μmol/L
			8.90	7.82 - 9.98	0.36	mg/dL
			89.0	78.2 - 99.8	3.6	mg/L
<b>CA2</b> Calcium	5-Nitro-5-methyl-BAPTA serum, plasma, urine STAT	699	2.22	1.95 - 2.49	0.09	mmol/L
			8.90	7.82 - 9.98	0.36	mg/dL
			89.0	78.2 - 99.8	3.6	mg/L
<b>CHOL2</b> Cholesterol	CHOD-PAP Gen.2 stand. Abell-Kendall serum, plasma	433	1.73	1.46 - 2.00	0.09	mmol/L
			66.9	57.0 - 76.8	3.3	mg/dL
			0.669	0.570 - 0.768	0.033	g/L
<b>CHOL2</b> Cholesterol	CHOD-PAP Gen.2 stand. ID/MS serum, plasma	798	1.70	1.43 - 1.97	0.09	mmol/L
			65.7	55.8 - 75.6	3.3	mg/dL
			0.657	0.558 - 0.756	0.033	g/L
<b>CHE2</b> Cholinesterase	butyrylthiocholine Gen.2 serum, plasma	510	5650	4630 - 6670	340	U/L
			94.4	77.3 - 111.5	5.7	μKat/L
			5.65	4.63 - 6.67	0.34	kU/L
<b>CHED2</b> Cholinesterase	butyrylthiocholine Gen.2 serum, plasma	534	5650	4630 - 6670	340	U/L
			94.4	77.3 - 111.5	5.7	μKat/L
			5.65	4.63 - 6.67	0.34	kU/L
<b>CK</b> Creatine Kinase	UV acc. to IFCC liquid serum, plasma	550	145	118 - 172	9	U/L
			2.42	1.97 - 2.87	0.15	μKat/L
<b>CKL</b> Creatine Kinase	UV IFCC liquid serum, plasma	057	145	118 - 172	9	U/L
			2.42	1.97 - 2.87	0.15	μKat/L
<b>CREJ2</b> Creatinine	Jaffé compensated Gen.2 STAT serum, plasma	773	82.8	67.8 - 97.8	5.0	μmol/L
			0.936	0.768 - 1.104	0.056	mg/dL
			0.083	0.068 - 0.098	0.005	mmol/L
			9.36	7.68 - 11.04	0.56	mg/L
<b>CREJ2</b> Creatinine	Jaffé rate-blanked and compensated Gen.2 serum, plasma	690	96.9	79.5 - 114.3	5.8	μmol/L
			1.09	0.88 - 1.30	0.07	mg/dL
			0.097	0.079 - 0.115	0.006	mmol/L
			10.9	8.8 - 13.0	0.7	mg/L

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<b>CREP2</b> Creatinine	plus ver.2 serum, plasma, urine	452	80.4 0.909 0.080	66.0 - 94.8 0.744 - 1.074 0.065 - 0.095	4.8 0.055 0.005	μmol/L mg/dL mmol/L
<b>DBILI</b> Direct Bilirubin	Jendrassik-Grof serum, plasma	006	0.566 9.68	0.431 - 0.701 7.37 - 11.99	0.045 0.77	mg/dL μmol/L
<b>GGT-2</b> gamma Glutamyltransferase	liquid stand. IFCC serum, plasma	220	51.2 0.855	41.9 - 60.5 0.702 - 1.008	3.1 0.051	U/L μKat/L
<b>GGT-2</b> gamma Glutamyltransferase	liquid stand. Szasz serum, plasma	480	44.2 0.738	36.1 - 52.3 0.606 - 0.870	2.7 0.044	U/L μKat/L
<b>GLUC2</b> Glucose	HK serum, plasma, urine, CSF	767	4.97 89.6 0.896	4.22 - 5.72 76.1 - 103.1 0.761 - 1.031	0.25 4.5 0.045	mmol/L mg/dL g/L
<b>GLUC2</b> Glucose	HK STAT serum, plasma, urine, CSF	525	4.97 89.6 0.896	4.22 - 5.72 76.1 - 103.1 0.761 - 1.031	0.25 4.5 0.045	mmol/L mg/dL g/L
<b>GLUC3</b> Glucose	HK serum, plasma, urine, CSF	717	4.97 89.6 0.896	4.22 - 5.72 76.1 - 103.1 0.761 - 1.031	0.25 4.5 0.045	mmol/L mg/dL g/L
<b>GLUC3</b> Glucose	HK STAT serum, plasma, urine, CSF	668	4.97 89.6 0.896	4.22 - 5.72 76.1 - 103.1 0.761 - 1.031	0.25 4.5 0.045	mmol/L mg/dL g/L
<b>ISE Cl</b> I.S.E. Chloride	I.S.E. indirect potentiometry serum, plasma	991	92.1 326	83.7 - 100.5 296 - 356	2.8 10	mmol/L mg/dL
<b>ISE K</b> I.S.E. Potassium	I.S.E. indirect potentiometry serum, plasma	990	3.38 13.2	3.08 - 3.68 12.0 - 14.4	0.10 0.4	mmol/L mg/dL
<b>ISE Na</b> I.S.E. Sodium	I.S.E. indirect potentiometry serum, plasma	989	124 285	112 - 136 258 - 312	4 9	mmol/L mg/dL
<b>IRON2</b> Iron	FerroZine Gen.2 serum, plasma	661	18.5 103 1.03	15.2 - 21.8 85 - 121 0.85 - 1.21	1.1 6 0.06	μmol/L μg/dL mg/L

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<b>LACT2</b> Lactate	enzymatic colorimetric test Gen.2 plasma, CSF	040	1.58 14.2 142	1.31 - 1.85 11.5 - 16.9 115 - 169	0.09 0.9 9	mmol/L mg/dL mg/L
<b>LACT2</b> Lactate	enzymatic colorimetric test Gen.2 STAT plasma, CSF	047	1.58 14.2 142	1.31 - 1.85 11.5 - 16.9 115 - 169	0.09 0.9 9	mmol/L mg/dL mg/L
<b>LDHI2</b> Lactate dehydrogenase	IFCC liquid ver.2 sample pre-dilution serum, plasma	147	145 2.42	118 - 172 1.97 - 2.87	9 0.15	U/L μKat/L
<b>LDHI2</b> Lactate dehydrogenase	IFCC liquid ver.2 serum, plasma	080	145 2.42	118 - 172 1.97 - 2.87	9 0.15	U/L μKat/L
<b>LIPC</b> Lipase	enzymatic colorimetric test serum, plasma	731	44.8 0.748	36.7 - 52.9 0.613 - 0.883	2.7 0.045	U/L μKat/L
<b>LIPC</b> Lipase	enzymatic colorimetric test STAT serum, plasma	733	44.8 0.748	36.7 - 52.9 0.613 - 0.883	2.7 0.045	U/L μKat/L
<b>LIPC</b> Lipase	enzymatic colorimetric test STAT serum, plasma	786	44.8 0.748	36.7 - 52.9 0.613 - 0.883	2.7 0.045	U/L μKat/L
<b>LIPC</b> Lipase	enzymatic colorimetric test serum, plasma	789	44.8 0.748	36.7 - 52.9 0.613 - 0.883	2.7 0.045	U/L μKat/L
<b>LI</b> Lithium	colorimetric test serum, plasma	136	0.789 0.548	0.693 - 0.885 0.482 - 0.614	0.032 0.022	mmol/L mg/dL
<b>MG2</b> Magnesium	xylydyl blue method serum, plasma	701	0.801 1.95 1.60 19.5	0.705 - 0.897 1.71 - 2.19 1.42 - 1.78 17.1 - 21.9	0.032 0.08 0.06 0.8	mmol/L mg/dL mVal/L mg/L
<b>MG2</b> Magnesium	xylydyl blue method STAT serum, plasma	688	0.801 1.95 1.60 19.5	0.705 - 0.897 1.71 - 2.19 1.42 - 1.78 17.1 - 21.9	0.032 0.08 0.06 0.8	mmol/L mg/dL mVal/L mg/L

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<b>PHOS2</b> Phosphate (inorganic)	molybdate UV ver.2 serum, plasma, urine	714	1.12 3.47 34.7	0.94 - 1.30 2.96 - 3.98 29.6 - 39.8	0.06 0.17 1.7	mmol/L mg/dL mg/L
<b>PHOS2</b> Phosphate (inorganic)	molybdate UV ver.2 STAT serum, plasma, urine	675	1.12 3.47 34.7	0.94 - 1.30 2.96 - 3.98 29.6 - 39.8	0.06 0.17 1.7	mmol/L mg/dL mg/L
<b>TP2</b> Total Protein	Biuret Gen.2 serum, plasma	678	64.3 6.43	56.5 - 72.1 5.65 - 7.21	2.6 0.26	g/L g/dL
<b>TP2</b> Total Protein	Biuret Gen.2 STAT serum, plasma	679	64.3 6.43	56.5 - 72.1 5.65 - 7.21	2.6 0.26	g/L g/dL
<b>TRIGL</b> Triglycerides	GPO-PAP serum, plasma	781	1.27 112 1.12	1.09 - 1.45 94 - 130 0.94 - 1.30	0.06 6 0.06	mmol/L mg/dL g/L
<b>TRIGB</b> Triglycerides/Glycerol Blanked	glycerol blanked serum, plasma	783	0.292 25.8 0.258	0.247 - 0.337 21.9 - 29.7 0.219 - 0.297	0.015 1.3 0.013	mmol/L mg/dL g/L
<b>UIBC</b> Unsaturated Iron-Binding Capacity	FerroZine serum, plasma	779	22.5 126 1.26	17.7 - 27.3 99 - 153 0.99 - 1.53	1.6 9 0.09	μmol/L μg/dL mg/L
<b>UREAL</b> Urea	Urease/GLDH serum, plasma, urine	418	6.43 38.6 0.386	5.47 - 7.39 32.9 - 44.3 0.329 - 0.443	0.32 1.9 0.019	mmol/L mg/dL g/L
<b>UREAL</b> Urea	Urease/GLDH STAT serum, plasma, urine	419	6.43 38.6 0.386	5.47 - 7.39 32.9 - 44.3 0.329 - 0.443	0.32 1.9 0.019	mmol/L mg/dL g/L
<b>UA2</b> Uric Acid	enzymatic colorimetric test ver.2 serum, plasma, urine	700	4.30 256 43.0	3.64 - 4.96 217 - 295 36.4 - 49.6	0.22 13 2.2	mg/dL μmol/L mg/L

