

Measurement Uncertainty Data Table
Data Collection: 1 Jan 2024 - 31 Dec 2024

Analyte	Reportable Unit	Mean Conc	%CV	MU %	MU	Mean Conc	%CV	MU %	MU	Mean Conc	%CV	MU %	MU
A													
17-OHP, serum	nmol/L	0.82	5.1	10.0	0.08	4.01	3.4	6.6	0.26	24.4	3.4	6.7	1.64
A1-anti-trypsin, serum	g/L	0.82	1.3	2.6	0.02	1.34	1.1	2.2	0.03	-	-	-	-
ACTH, plasma	pmol/L	6.61	11.4	22.3	1.47	39.8	10.4	20.3	8.09	82.6	10.5	20.6	17.03
Acylcarnitine, serum:													
C2 carnitine	umol/L	3.81	4.4	8.6	0.33	22.7	6.0	11.8	2.67	36.02	4.1	8.04	2.89
C3 carnitine	umol/L	0.81	2.7	5.3	0.04	1.61	4.3	8.4	0.14	7.94	4.1	8.04	0.64
C4 carnitine	umol/L	0.47	5.0	9.8	0.05	1.85	2.9	5.7	0.11	4.55	2.3	4.51	0.21
C5 carnitine	umol/L	0.54	4.3	8.4	0.05	1.82	2.9	5.7	0.10	5.3	2.7	5.29	0.28
C6 carnitine	umol/L	0.31	4.9	9.6	0.03	1.51	4.6	9.0	0.14	3.02	4.9	9.60	0.29
C8 carnitine	umol/L	0.57	5.4	10.6	0.06	1.86	3.5	6.9	0.13	5.48	3.1	6.08	0.33
C10 carnitine	umol/L	0.32	6.9	13.5	0.04	1.60	5.0	9.8	0.16	3.15	6	11.76	0.37
C12 carnitine	umol/L	0.00	46.7	91.5	0.00	0.04	12.7	24.9	0.01	0.04	12.2	23.91	0.01
C14 carnitine	umol/L	0.27	6.5	12.7	0.03	0.06	10.1	19.8	0.01	-	-	-	-
C16 carnitine	umol/L	0.35	4.9	9.6	0.03	1.76	3.4	6.7	0.12	3.43	3	5.88	0.20
C18 carnitine	umol/L	0.35	4.2	8.2	0.03	1.79	3.8	7.4	0.13	3.38	4	7.84	0.26
Adrenaline, urine (concentration)	nmol/L	25.8	4.0	7.9	2.04	74.2	3.2	6.2	4.58	142	3.7	7.2	10.23
AFP, serum	ug/L	34.4	2.9	5.8	1.98	135	3.0	5.8	7.84	268	3.0	5.9	15.69
Albumin, urine (concentration, first morning)	mg/L	36.8	20.1	39.4	14.49	79.7	10.3	20.1	16.02	-	-	-	-
Albumin, serum	g/L	24.2	2.3	4.4	1.08	41.0	1.7	3.3	1.37	-	-	-	-
Aldosterone, serum	pmol/L	106	5.6	10.9	11.56	522	3.1	6.0	31.31	1004	3.6	7.1	71.44
Aldosterone, urine (concentration)	nmol/L	10.1	3.9	7.6	0.77	19.4	3.2	6.2	1.21	40.9	3.4	6.7	2.72
Alanine aminotransferase, serum	U/L	25.7	4.7	9.3	2.39	79.8	1.9	3.8	3.00	-	-	-	-
Alkaline phosphatase, serum	U/L	93.6	1.9	3.8	3.55	396	1.9	3.8	14.88	-	-	-	-
Aluminium, serum	umol/L	0.21	22.6	44.2	0.09	1.64	5.8	11.5	0.19	0.81	9.6	18.8	0.15
Amino acids, plasma:													
Alanine	umol/L	409	3.3	6.5	26.47	718	3.9	7.6	54.88	-	-	-	-
Alloisoleucine	umol/L	21.5	5.4	10.6	2.28	208	3.6	7.1	14.66	-	-	-	-
Arginine	umol/L	41.6	4.2	8.2	3.43	265	3.7	7.3	19.19	-	-	-	-
Argininosuccinic acid	umol/L	0.07	238.30	467.07	0.33	11.9	7.7	15.1	1.80	-	-	-	-
Asparagine	umol/L	32.7	4.6	9.0	2.95	199	3.8	7.4	14.85	-	-	-	-
Aspartic acid	umol/L	16.5	5.3	10.4	1.71	106	4.2	8.2	8.70	-	-	-	-
Citrulline	umol/L	23.4	5.5	10.8	2.52	119	4.5	8.8	10.53	-	-	-	-
Cystathionine	umol/L	0.00	1967.2	3855.7	0.00	0.0	1392.8	2729.9	0.27	-	-	-	-
Cystine	umol/L	25.1	3.9	7.6	1.92	56.7	3.9	7.6	4.33	-	-	-	-
Glutamic acid	umol/L	228	3.0	5.9	13.39	339	3.6	7.1	23.93	-	-	-	-
Glutamine	umol/L	268	3.0	5.9	15.76	782	3.4	6.7	52.11	-	-	-	-
Glycine	umol/L	186	4.7	9.2	17.13	652	3.0	9.8	63.94	-	-	-	-
Histidine	umol/L	82.8	3.8	7.4	6.17	183	3.8	7.4	13.66	-	-	-	-
Homocysteine	umol/L	0.05	295.5	579.2	0.29	12.6	11.0	21.6	2.72	-	-	-	-
Isoleucine	umol/L	68.2	3.6	7.1	4.81	121	3.3	6.5	7.80	-	-	-	-
Leucine	umol/L	127	3.0	5.9	7.44	272	3.2	6.3	17.09	-	-	-	-
Lysine	umol/L	169	4.2	8.2	13.95	284	4.3	8.4	23.91	-	-	-	-
Methionine	umol/L	27.3	4.5	8.8	2.41	63.7	5.0	9.8	6.25	-	-	-	-
Ornithine	umol/L	130	3.8	7.4	9.65	322	4.5	8.8	28.40	-	-	-	-
Phenylalanine	umol/L	75.5	46.0	90.2	68.03	431	3.1	6.1	26.16	-	-	-	-
Serine	umol/L	111	4.5	8.8	9.77	306	4.3	8.4	25.79	-	-	-	-
Threonine	umol/L	112	3.3	6.5	7.27	215	3.5	6.9	14.73	-	-	-	-
Tryptophan	umol/L	46.8	4.3	8.4	3.95	206	3.0	5.9	12.13	-	-	-	-
Tyrosine	umol/L	60.0	3.5	6.9	4.11	202	3.2	6.3	12.66	-	-	-	-
Valine	umol/L	217	3.2	6.3	13.59	422	3.3	6.5	27.32	-	-	-	-
Amino-levalulinic acid, spot urine	umol/L	33.0	5.7	11.2	3.70	141	8.4	16.6	23.42	-	-	-	-
Anti-Cardiolin Antibodies, serum	GPL/mL	9.6	6.3	12.3	1.18	2.2	11.8	23.1	0.50	-	-	-	-
Anti-beta-2-Glycoprotein-1 Antibodies, serum	RU/mL	105	6.9	13.6	14.31	37.7	3.9	7.6	2.88	-	-	-	-
Anti-Cyclic Citrullinated Peptides Antibodies, serum	RU/mL	133.2	5.3	10.3	13.72	93.6	59.0	115.6	108.22	-	-	-	-
Anti-dsDNA Antibodies, serum	IU/mL	218	10.0	19.5	42.53	43	2.2	4.3	1.83	-	-	-	-
Anti-Extractable Nuclear Antigen (ENA) Antibodies, serum (Screening ELISA)	RU/mL	140	4.0	7.9	11.08	141.9	4.1	8.0	11.40	-	-	-	-
Anti-Glomerular Basement Membrane Antibodies, serum	RU/mL	122	4.8	9.5	11.59	41.1	4.5	8.8	3.63	-	-	-	-
Anti-Intrinsic Factor Antibodies, serum	RU/mL	92.9	4.3	8.4	7.81	14.7	3.7	7.3	1.07	-	-	-	-
Anti-Myeloperoxidase Antibodies, serum	RU/mL	107	10.5	20.5	21.86	14.2	2.8	5.5	0.78	-	-	-	-
Anti-Proteinase-3 Antibodies, serum	RU/mL	106	5.6	11.0	11.65	30.8	10.0	19.7	6.06	-	-	-	-
Ammonia, plasma	umol/L	132	2.0	4.0	5.29	308	1.5	3.0	9.19	-	-	-	-
Amylase, serum	U/L	85.4	1.2	2.3	2.00	422	1.1	2.1	8.86	-	-	-	-
Androstenedione, serum	nmol/L	0.98	3.9	7.7	0.08	3.93	3.9	7.6	0.30	32.5	3.5	6.9	2.26
Arsenic acid, blood	umol/L	40.0	3.0	5.9	2.36	74	2.7	5.3	3.88	140	2.5	5.0	6.98
Arsenic acid, total, urine	nmol/L	223	2.2	4.3	9.58	668	2.1	4.2	27.73	-	-	-	-
Arsenic acid, inorganic, urine	ug/L	1930	13.8	27.0	521.01	-	-	-	-	-	-	-	-
AST, serum	U/L	39.9	3.6	7.1	2.84	232	1.4	2.7	6.34	-	-	-	-
B													
Beta-2-microglobulin, serum	mg/L	1.65	4.6	9.0	0.15	3.92	4.1	8.1	0.32	6.05	5.1	10.1	0.61
Beta hydroxybutyrate (BOHB), Serum	mmol/L	0.18	3.8	7.5	0.01	1.03	2.1	4.2	0.04	4.09	1.9	3.8	0.15
Bilirubin, direct, serum	umol/L	-	-	-	-	30.1	2.2	4.4	1.32	139.66	1.7	3.3	4.60
Bilirubin, total, serum	umol/L	15.9	2.7	5.3	0.85	80.1	1.6	3.1	2.47	-	-	-	-
Bioidase, serum	nmol pABA /min/ml (37C)	9.6	6.3	12.3	1.18	2.18	11.8	23.1	0.50	-	-	-	-
Blood gases and acid-base, pCO2	kPa	7.49	4.2	8.2	0.62	5.47	1.5	3.0	0.16	2.69	3.2	6.3	0.17
Blood gases and acid-base, pH (pH units)	pH unit	63.45	3.3	6.5	4.10	7.44	0.1	0.1	0.01	7.65	0.1	0.1	0.01
Blood gases and acid-base, pO2	kPa	9.54	2.6	5.1	0.49	13.6	2.1	4.2	0.56	18.2	2.2	4.4	0.80
C													
C3, serum	g/L	5.91	4.3	8.4	0.50	1.85	1.9	3.7	0.07	-	-	-	-
C4, serum	g/L	3.05	3.7	7.3	0.22	0.33	2.5	4.8	0.02	-	-	-	-
CA 15-3, serum	ku/L	18.9	5.3	10.3	1.94	59.7	5.0	9.8	5.84	101.4	4.9	9.5	9.65
CA 19-9, serum	ku/L	18.7	3.3	6.5	1.21	80.3	2.5	5.0	3.98	229	2.3	4.4	10.08
CA 125, serum	ku/L	31.7	5.4	10.7	3.37	81.1	5.1	10.1	8.18	207	4.7	9.2	18.96
Cadmium, blood	nmol/L	13.3	4.4	8.7	1.16	31.3	3.0	6.0	1.87	59.9	3.1	6.1	3.67
Cadmium, urine	nmol/L	19.2	3.4	6.6	1.27	125	2.4	4.8	5.95	-	-	-	-
Calcitonin, serum	ng/L	47.8	4.6	9.0	4.31	129	2.7	5.4	6.92	472	3.1	6.1	28.65
Calcium, 24 Hr urine (concentration)	mmol/L	0.94	4.6	8.9	0.08	2.86	1.9	3.7	0.11	-	-	-	-
Calcium, ionised	mmol/L	1.34	1.3	2.5	0.03	0.97	1.2	2.3	0.02	0.47	4.9	9.6	0.04
Calcium, serum	mmol/L	2.11	1.5	2.9	0.06	3.20	1.3	2.5	0.08	-	-	-	-
Calcium, spot urine	mmol/L	0.94	4.6	9.0	0.08	2.86	1.9	3.7	0.11	-	-	-	-
Carbamazepine (Tegretol), serum	mg/L	36.2	2.4	4.8	1.73	61.0	2.0	3.8	2.34	-	-	-	-
Carboxyhaemoglobin fraction, whole blood	%	4.43	5.7	11.2	0.49	4.85	6.3	12.3	0.60	18.8	1.1	2.2	0.41
CEA, serum	ug/L	2.47	3.9	7.6	0.19	15.9	2.1	4.1	0.66	34.7	2.1	4.1	1.43
Ceruloplasmin, serum	g/L	0.15	1.4	2.7	0.00	0.29	1.4	2.7	0.01	-	-	-	-
Carnitine, free, serum	umol/L	7.5	4.2	8.2	0.62	37.7	3.9	7.6	2.88	75.9	4.7	9.2	6.99
Chloride, 24 Hr urine (concentration)	mmol/L	43.9											

E													
E2, serum	pmol/L	259	4.5	8.9	22.95	1215	2.2	4.4	53.32	2632	2.0	4.0	105.25
Ethanol, serum	mmol/L	17.9	2.5	4.9	0.88	50.7	2.2	4.3	2.19	-	-	-	-
Everolimus, whole blood	µg/L	3.46	4.5	8.8	0.31	17.2	3.6	7.1	1.23	25.8	3.5	6.9	1.79
EBV DNA, plasma	copies/reaction	33.80	14.2	27.8	9.41	-	-	-	-	-	-	-	-
F													
FE, serum	umol/L	13.5	4.0	7.8	1.05	43.5	1.6	3.1	1.34	-	-	-	-
Ferritin, serum	ug/L	36.7	2.9	5.8	2.12	204	2.9	5.6	11.40	459	4.4	8.6	39.43
FK506	µg/L	3.52	3.6	7.0	0.25	14.1	2.7	5.2	0.74	25.8	3.3	6.4	1.64
Folate, serum	nmol/L	8.4	6.2	12.1	1.02	21.2	3.9	7.7	1.64	34.2	4.5	8.8	3.01
FSH, serum	IU/L	7.60	1.9	3.7	0.28	17.0	1.8	3.6	0.62	39.5	2.0	3.9	1.56
FT3, serum	pmol/L	4.34	2.9	5.7	0.25	12.0	2.0	3.9	0.47	22.8	1.8	3.5	0.80
FT4, serum	pmol/L	15.7	2.4	4.7	0.74	40.6	2.4	4.8	1.93	69.5	3.5	6.8	4.72
G													
GGT, serum	U/L	42.5	1.5	2.9	1.23	177	1.1	2.2	3.87	-	-	-	-
Glucose, CSF	mmol/L	3.23	1.7	3.3	0.11	-	-	-	-	-	-	-	-
Glucose, plasma	mmol/L	4.63	1.4	2.8	0.13	15.8	1.3	2.6	0.40	-	-	-	-
Glycosaminoglycan, spot urine	umol/L	13.68	9.1	17.8	2.44	41.1	4.5	8.8	3.63	113.4	3.5	6.9	7.78
Growth hormone, serum	mIU/L	5.91	4.3	8.4	0.50	26.5	4.4	8.7	2.30	49.45	4.6	9.0	4.44
Guanidinoacetate, plasma	umol/L	5.91	4.3	8.4	0.50	14.7	3.7	7.3	1.07	-	-	-	-
Guanidinoacetate, spot urine	umol/L	3.05	3.7	7.3	0.22	14.2	2.8	5.5	0.78	-	-	-	-
H													
Haptoglobin, serum	g/L	0.71	1.4	2.8	0.02	1.59	1.1	2.1	0.03	-	-	-	-
HCG, serum	IU/L	4.46	3.2	6.2	0.28	17.5	2.3	4.5	0.79	376	2.2	4.4	16.55
HDL cholesterol, serum	mmol/L	0.64	2.4	4.6	0.03	1.22	2.3	4.5	0.05	-	-	-	-
5-HIAA, urine (concentration)	µmol/L	18.0	3.4	6.6	1.18	144	3.3	6.4	9.23	-	-	-	-
I													
IGF1, serum	µg/L	160	3.9	7.6	12.20	328	2.9	5.7	18.72	584	2.5	4.8	28.03
IgA, serum	g/L	1.27	1.9	3.7	0.05	2.16	1.7	3.3	0.07	2.97	1.7	3.2	0.10
IgG, serum	g/L	7.64	1.7	3.3	0.25	13.4	1.8	3.5	0.46	19.5	2.1	4.1	0.81
IgM, serum	g/L	0.61	3.9	7.7	0.05	1.08	2.6	5.1	0.05	1.47	2.2	4.3	0.06
IgE, total	kU/L	376	7.5	14.8	55.67	89.2	6.0	11.7	10.42	113	6.0	11.8	13.29
Insulin, serum	mIU/L	4.38	22.6	44.3	1.94	16.6	9.1	17.8	2.96	42.6	10.0	19.6	8.36
Iodine, urine	µmol/l	0.90	3.2	6.3	0.06	4.01	2.8	5.4	0.22	-	-	-	-
Isopropanol, blood	mmol/L	4.66	5.0	9.8	0.46	12.94	4.1	8.0	1.04	-	-	-	-
L													
Lactate, plasma	mmol/L	1.10	1.7	3.4	0.04	4.47	1.4	2.8	0.13	-	-	-	-
Lactate, CSF	mmol/L	1.89	1.6	3.1	0.06	-	-	-	-	-	-	-	-
LDL, serum	U/L	145	1.7	3.4	4.88	403	1.4	2.7	10.92	-	-	-	-
LDL cholesterol, serum	mmol/L	1.63	1.5	3.0	0.05	3.74	1.5	2.9	0.11	-	-	-	-
Lead, 24 Hr urine (concentration)	µmol/L	123	3.5	6.8	8.43	230	4.0	7.8	18.03	-	-	-	-
Lead, whole blood	ug/dL	3.50	2.4	4.7	0.16	9.01	2.3	4.4	0.40	25.0	2.5	4.8	1.21
LH, serum	IU/L	6.12	2.8	5.4	0.33	22.6	2.8	5.5	1.25	70.5	2.8	5.5	3.86
Lithium, serum	mmol/L	0.67	3.1	6.0	0.04	1.98	2.1	4.1	0.08	-	-	-	-
M													
Magnesium, 24 Hr urine (concentration)	mmol/L	1.65	3.6	7.1	0.12	-	-	-	-	1.856	2.9	5.7	0.11
Magnesium, serum	mmol/L	0.84	1.3	2.6	0.02	1.70	0.9	1.8	0.03	-	-	-	-
Magnesium, spot urine	mmol/L	1.65	3.6	7.1	0.12	-	-	-	-	1.86	2.7	5.3	0.10
Manganese, blood	mmol/L	145	2.6	5.1	7.38	264	2.5	4.8	12.80	383	2.2	4.3	16.59
Manganese, urine	mmol/L	72.8	2.5	5.0	3.61	172	2.4	4.7	8.06	-	-	-	-
Mercury, blood	mmol/L	14.5	4.5	8.9	1.28	42.7	4.2	8.3	3.52	83.8	4.5	8.9	7.42
Mercury, urine	mmol/L	12.9	4.9	9.5	1.23	103.0	3.2	6.2	6.39	50.777	3.1	6.1	3.10
Metanephrines, free, urine (concentration)	nmol/L	118	4.4	8.5	10.12	359	3.6	7.1	25.43	954	3.0	5.9	55.94
Methaemoglobin fraction, whole blood	%	15.7	0.6	1.3	0.20	2.53	5.2	10.3	0.26	6.66	3.5	6.9	0.46
Methanol, blood	mmol/L	3.5	6.6	12.9	0.45	24.04	4.7	9.2	2.21	-	-	-	-
3-Methoxytyramine, free, urine (concentration)	nmol/L	70.4	4.3	8.4	5.90	285	3.7	7.3	20.67	852	4.0	7.8	66.80
Methotrexate, serum	umol/L	0.43	3.8	7.5	0.03	1.18	4.2	8.1	0.10	8.20	4.3	8.5	0.70
Mycophenolic acid, total, plasma	mg/L	0.28	4.1	8.1	0.02	1.91	3.2	6.3	0.12	7.41	3.3	6.4	0.48
N													
Noradrenaline, urine (concentration)	nmol/L	79.3	5.6	10.9	8.64	234	3.0	5.9	13.84	304	3.4	6.6	20.23
Normetanephrines, free, urine (concentration)	nmol/L	466	3.8	7.4	34.28	1423	4.1	8.1	115.19	2493	3.9	7.6	190.09
Nickel, urine	nmol/L	54.1	7.8	15.3	8.28	240	3.9	7.6	18.18	-	-	-	-
NT pro B-Natriuretic peptide, Serum	ng/L	120	3.2	6.3	7.55	3896	3.1	6.1	238.97	337	2.9	5.7	19.12
O													
Osmolality, serum	mOsm/Kg	334	0.5	0.9	3.07	-	-	-	-	-	-	-	-
Osmolality, spot urine	mOsm/Kg	852	0.4	0.7	6.35	-	-	-	-	-	-	-	-
Oxalate, 24 Hr urine (concentration)	mmol/L	0.29	8.1	15.8	0.05	1.05	5.7	11.1	0.12	-	-	-	-
Oxyhaemoglobin, FO2Hb	%	77.8	0.3	0.6	0.46	90.4	0.3	0.6	0.58	58.6	0.4	0.8	0.45
P													
Paracetamol, serum	umol/L	71.7	3.7	7.3	5.27	517	4.6	9.0	46.68	-	-	-	-
Phenobarbital (Luminal), serum	umol/L	103	4.4	8.7	8.93	205	3.5	6.9	14.09	-	-	-	-
Phenytoin (Dilantin), serum	umol/L	48.9	4.1	8.0	3.92	93.2	4.1	8.0	7.44	-	-	-	-
Phosphate, 24 Hr urine (concentration)	mmol/L	12.5	2.0	3.9	0.48	24.7	1.8	3.5	0.86	-	-	-	-
Phosphate, serum	mmol/L	0.98	3.2	6.2	0.06	2.41	1.7	3.3	0.08	-	-	-	-
Phosphate, spot urine	mmol/L	12.5	2.0	3.9	0.48	24.7	1.8	3.5	0.86	-	-	-	-
pH, spot urine		7.02	0.3	0.6	0.04	4.03	0.4	0.8	0.03	-	-	-	-
Porphobilinogen, spot urine	umol/L	7.48	7.4	14.5	1.08	71.3	2.9	5.8	4.11	-	-	-	-
Potassium, 24 Hr urine (concentration)	mmol/L	19.5	1.2	2.3	0.44	-	-	-	-	61.7	2.6	5.0	3.11
Potassium, serum	mmol/L	4.01	0.7	1.5	0.06	6.39	0.6	1.1	0.07	-	-	-	-
Potassium, spot urine	mmol/L	19.5	1.2	2.3	0.44	-	-	-	-	61.7	2.6	5.0	3.11
Progesterone, serum	mmol/L	3.53	5.9	11.5	0.38	38.3	2.6	5.2	1.98	83	2.5	4.9	4.08
Prolactin, serum	mIU/L	202	2.3	4.5	9.12	473	2.3	4.4	21.01	1301	2.2	4.4	57.26
Protein, total, 24 Hr urine (concentration)	g/L	0.19	3.6	7.1	0.01	0.55	1.5	2.9	0.02	-	-	-	-
Protein, total, CSF	g/L	0.37	2.2	4.2	0.02	-	-	-	-	-	-	-	-
Protein, total, spot urine	g/L	0.19	3.6	7.1	0.01	0.55	1.5	2.9	0.02	-	-	-	-
Protein, total, serum	g/L	41.1	1.9	3.7	1.51	67.9	1.5	2.9	1.97	-	-	-	-
PSA, serum	ug/L	0.32	2.5	4.9	0.02	3.32	2.1	4.1	0.14	21.6	2.1	4.1	0.88
PTH, plasma	pmol/L	2.31	4.9	9.7	0.22	17.3	2.3	4.5	0.78	52.9	2.2	4.4	2.32
R													
Renin activity, plasma	ng/mL/hr	2.16	4.8	9.3	0.20	5.6	4.7	9.2	0.51	9.16	4.5	8.8	0.81
S													
Saliclylate, serum	mmol/L	0.43	2.6	5.1	0.02	1.18	1.8	3.5	0.04	-	-	-	-
Selenium, serum	umol/l	0.80	3.6	7.1	0.06	1.42	2.7	5.4	0.08	0.47	3.8	7.4	0.03
Sex hormone binding globulin, serum	nmol/L	35.8	4.1	8.0	2.87	33.0	3.6	7.1	2.34	32.3	4.1	8.1	2.62
Sirolimus, whole blood	µg/L	3.57	4.9	9.7	0.34	18.0	3.4	6.7	1.21	25.8	2.5	4.9	1.26
Sodium, 24 Hr urine (concentration)	mmol/L	50.6	3.0	5.9	3.00	-	-	-	-	90.8	2.0	3.9	3.50
Sodium, serum	mmol/L	124	0.7	1.4	1.69	155	0.6	1.1	1.76	-	-	-	-
Sodium, spot urine	mmol/L	50.6	3.0	5.9	3.00	-	-	-	-	90.8	2.0	3.9	3.50
STSH, serum	mIU/L	0.91	2.3	4.5	0.04	6.47	2.4	4.8	0.31	36.7	2.7	5.2	1.92
T													
Testosterone, serum	nmol/L	3.69	4.3	8.5	0.31	14.0	2.9	5.7	0.80	27.5	3.2	6.3	1.73
Testosterone(MS), serum	nmol/L	0.75	3.2	6.2	0.05	5.50	2.6	5.0	0.28	29.4	2.7	5.2	1.54
Theophylline (Aminophylline), serum	umol/L	82.6	2.7	5.4	4.43	165	2.3	4.5	7.50	-	-	-	-
Thyroglobulin, serum	ug/L	4.04	2.1	4.0	0.16	37.8	2.0	3.9	1.46	119	2.1	4.0	4.80
Thyroglobulin antibody, serum	kIU/L	106	8.5	16.7	17.60	242	5.6	10.9	26.41	718	3.7	7.2	51.56
Thyroid peroxidase antibody, serum	kIU/L	53.8	11.4	22.2	11.97	117	8.5	16.6	19.53	237	6.8	13.4	31.82
TIBC, serum	umol/L	23.3	6.1	11.9	2.78	16.5	7.9	15.4	2.55	-	-	-	-
Triglyceride, serum	mmol/L	0.99	2.2	4.3	0.04	1.98	1.6	3.1	0.06	-	-	-	-
Troponin T, plasma	ng/L	23.4	4.7	9.2	2.16	140	3.2	6.4	8.92	2222	4.3	8.4	186.90
U													
Urate, 24 Hr urine (concentration)	mmol/L	507	2.7	5.3	27.03	1143	3.5	6.9	78.66	-	-	-	-
Urate, serum	mmol/L	221	1.5	3.0	6.57	513	1.4	2.8	14.53	-	-	-	-
Urate, spot urine	mmol/L	507	2.7	5.3	27.03	1143	3.5	6.9	78.66	-	-	-	-
Urea, 24 Hr urine (concentration)	mmol/L	132	2.9	5.7	7.52	263	2.6	5.2	13.62	-	-	-	-
Urea, serum	mmol/L	5.20	2.3	4.4	0.23	16.6	2.1	4.1	0.68	-	-	-	-
Urea, spot urine	mmol/L	132	2.9	5.7	7.52	263	2.6	5.2	13.62	-	-	-	-
V													

Valporate (Eptilim), serum	umol/L	526	4.9	9.6	50.45	859	5.0	9.7	83.71	-	-	-	-
Vitamin B12 Active, serum	pmol/L	15.4	4.7	9.2	1.42	45.5	3.4	6.6	3.00	-	-	-	-
Vit. D 25-hydroxy, serum	nmol/L	17.4	3.3	6.5	1.13	73.4	2.2	4.2	3.11	173	2.3	4.5	7.77
Very long chain fatty acid, serum:													
<i>Pristanic acid</i>	umol/L	0.97	3.2	6.3	0.06	3.82	2.4	4.7	0.18	-	-	-	-
<i>Phytanic acid</i>	umol/L	2.53	3.2	6.3	0.16	11.6	2.6	5.1	0.59	-	-	-	-
<i>Docosanoic acid (C22)</i>	umol/L	51.6	2.4	4.7	2.43	78.9	3.1	6.1	4.80	-	-	-	-
<i>Tetracosanoic acid (C24)</i>	umol/L	46.9	2.6	5.1	2.39	81.5	3.7	7.3	5.91	-	-	-	-
<i>Hexacosanoic acid (C26)</i>	umol/L	0.96	2.8	5.5	0.05	4.72	3.8	7.4	0.35	-	-	-	-
VMA, urine (concentration)	umol/L	16.4	4.7	9.3	1.52	82.8	3.9	7.7	6.36	-	-	-	-
Z													
Zinc, serum	umol/l	23.0	2.4	4.8	1.09	28.3	2.3	4.6	1.30	9.4	3.2	6.3	0.59
Zinc, 24 Hr urine	umol/l	2.72	3.4	6.7	0.18	7.60	3.1	6.1	0.46	-	-	-	-
Zinc, blood	umol/l	7.02	3.4	6.7	0.47	9.54	3.6	7.0	0.67	11.9	3.6	7.1	0.84
FLUID													
AFP, fluid	ug/L	34.4	2.9	5.8	1.98	135	3.0	5.8	7.84	268	3.0	5.9	15.69
Albumin, fluid	g/L	24.2	2.5	4.4	1.08	41.0	1.7	3.3	1.37	-	-	-	-
Alanine aminotransferase, fluid	U/L	25.7	4.7	9.3	2.39	79.8	1.9	3.8	3.00	-	-	-	-
Alkaline phosphatase, fluid	U/L	93.6	1.9	3.8	3.55	396	1.9	3.8	14.88	-	-	-	-
Amylase, fluid	U/L	85.4	1.2	2.3	2.00	422	1.1	2.1	8.86	-	-	-	-
Bilirubin, total, fluid	umol/L	15.9	2.7	5.3	0.85	80.1	1.6	3.1	2.47	-	-	-	-
Calcium, fluid	mmol/L	2.11	1.5	2.9	0.06	3.20	1.3	2.5	0.08	-	-	-	-
CEA, fluid	ug/L	2.47	3.9	7.6	0.19	15.9	2.1	4.1	0.66	34.7	2.1	4.1	1.43
Chloride, fluid	mmol/L	85.2	1.3	2.6	2.24	99	1.1	2.2	2.20	-	-	-	-
Cholesterol, fluid	mmol/L	2.73	1.8	3.4	0.09	6.19	1.4	2.8	0.17	-	-	-	-
Creatinine, fluid	umol/L	70.0	3.6	7.1	5.01	473	2.5	4.9	23.29	-	-	-	-
GGT, fluid	U/L	42.5	1.5	2.9	1.23	177	1.1	2.2	3.87	-	-	-	-
Glucose, fluid	mmol/L	4.63	1.4	2.8	0.13	15.8	1.3	2.6	0.40	-	-	-	-
HCG, fluid	IU/L	4.46	3.2	6.2	0.28	17.5	2.3	4.5	0.79	376	2.2	4.4	16.55
LDH, fluid	U/L	145	1.7	3.4	4.88	403	1.4	2.7	10.92	-	-	-	-
Osmolality, fluid	mOsm/Kg	274	0.6	1.2	3.17	-	-	-	-	-	-	-	-
Phosphate, fluid	mmol/L	0.98	3.2	6.2	0.06	2.41	1.7	3.3	0.08	-	-	-	-
Potassium, fluid	mmol/L	4.01	0.7	1.5	0.06	6.39	0.6	1.1	0.07	-	-	-	-
Protein, total, fluid	g/L	41.1	1.9	3.7	1.51	67.9	1.5	2.9	1.97	-	-	-	-
Sodium, fluid	mmol/L	124	0.7	1.4	1.69	155	0.6	1.1	1.76	-	-	-	-
Triglyceride, fluid	mmol/L	0.99	2.2	4.3	0.04	1.98	1.6	3.1	0.06	-	-	-	-
Urate, fluid	mmol/L	221	1.5	3.0	6.57	513	1.4	2.8	14.53	-	-	-	-
Urea, fluid	mmol/L	5.20	2.3	4.4	0.23	16.6	2.1	4.1	0.68	-	-	-	-
POCT													
Blood gases and acid-base, pCO2	Kpa	9.32	1.8	3.6	0.33	5.27	2.5	4.8	0.25	8.79	2.6	5.1	0.45
Blood gases and acid-base, pH	pH unit	7.15	0.0	0.1	0.01	7.35	0.1	0.1	0.01	7.55	0.1	0.1	0.01
Blood gases and acid-base, pO2	Kpa	20.1	1.9	3.7	0.74	13.6	2.2	4.3	0.59	8.79	2.6	5.1	0.45
Calcium, ionised	mmol/L	1.49	1.7	3.4	0.05	1.15	1.9	3.7	0.04	0.84	1.2	2.3	0.02
Neonatal bilirubin	umol/L	350	2.9	5.6	19.60	205	2.4	4.8	9.80	87.0	3.4	6.8	5.88
Total haemoglobin, tHb	umol/L	18.0	0.6	1.1	0.20	14.1	0.7	1.4	0.20	8.10	1.2	2.4	0.20
Oxyhaemoglobin, FO2Hb	%	77.5	0.4	0.8	0.59	91.4	0.4	0.9	0.78	59.3	0.8	1.7	0.98
Carboxyhaemoglobin, FCOHb	%	4.20	7.1	14.0	0.59	4.30	7.0	13.7	0.59	19.0	1.6	3.1	0.59
Methaemoglobin, FMeHb	%	16.0	0.6	1.2	0.20	2.10	9.5	18.7	0.39	6.00	6.7	13.1	0.78
Potassium, blood	mmol/L	3.00	0.3	0.7	0.02	5.00	0.4	0.8	0.04	7.01	0.6	1.1	0.08
Sodium, blood	mmol/L	115	0.4	0.8	0.98	136	0.4	0.7	0.98	156	0.5	1.0	1.57
Chloride, blood	mmol/L	81.0	1.2	2.4	1.96	100	1.0	2.0	1.96	119	0.8	1.6	1.96
Lactate, blood	mmol/L	11.7	5.3	10.4	1.22	0.87	8.0	15.8	0.14	2.92	3.8	7.4	0.22
Glucose, blood	mmol/L	3.39	5.3	10.4	0.35	-	-	-	-	16.0	3.7	7.2	1.16

Reference:

Adopted from Tools, Technologies and Training for Health care Laboratories, Westgard QC: Desirable Biological Variation Database specifications 2014.

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