

TABLE 1—Système International (SI) units for plasma, serum, or blood concentrations

MEASUREMENT	CONVENTIONAL UNIT	CONVERSION FACTOR	SI UNIT	SIGNIFICANT DIGITS	SUGGESTED MINIMUM INCREMENTS
ACETOACETATE	mg/dl	97.95	μmol/L	XXO	10 μmol/L
ACETONE	mg/dl	172.2	μmol/L	XXO	10 μmol/L
ADRENOCORTICOTROPIN	pg/ml	0.2202	pmol/L	XX	1 pmol/L
ALDOSTERONE	ng/dl	27.74	pmol/L	XXO	10 pmol/L
AMINO ACIDS					
ALANINE	mg/dl	112.2	μmol/L	XXX	5 μmol/L
α-AMINOBUTYRIC ACID	mg/dl	96.97	μmol/L	XXX	5 μmol/L
ARGININE	mg/dl	57.40	μmol/L	XXX	5 μmol/L
ASPARAGINE	mg/dl	75.69	μmol/L	XXX	5 μmol/L
ASPARTIC ACID	mg/dl	75.13	μmol/L		5 μmol/L
CITRULLINE	mg/dl	57.08	μmol/L	XXX	5 μmol/L
CYSTINE	mg/dl	41.61	μmol/L	XXX	5 μmol/L
GLUTAMIC ACID	mg/dl	67.97	μmol/L	XXX	5 μmol/L
GLUTAMINE	mg/dl	68.42	μmol/L	XXX	5 μmol/L
GLYCINE	mg/dl	133.2	μmol/L	XXX	5 μmol/L
HISTIDINE	mg/dl	64.45	μmol/L	XXX	5 μmol/L
HYDROXYPROLINE	mg/dl	76.26	μmol/L	XXX	5 μmol/L
ISOLEUCINE	mg/dl	76.24	μmol/L	XXX	5 μmol/L
LEUCINE	mg/dl	76.24	μmol/L	XXX	5 μmol/L
LYSINE	mg/dl	68.40	μmol/L	XXX	5 μmol/L
METHIONINE	mg/dl	67.02	μmol/L	XXX	5 μmol/L
ORNITHINE	mg/dl	75.67	μmol/L	XXX	5 μmol/L
PHENYLALANINE	mg/dl	60.54	μmol/L	XXX	5 μmol/L
PROLINE	mg/dl	86.86	μmol/L	XXX	5 μmol/L
SERINE	mg/dl	95.16	μmol/L	XXX	5 μmol/L
TAURINE	mg/dl	79.91	μmol/L	XXX	5 μmol/L
THREONINE	mg/dl	83.95	μmol/L	XXX	5 μmol/L
TRYPTOPHAN	mg/dl	48.97	μmol/L	XXX	5 μmol/L
TYROSINE	mg/dl	55.19	μmol/L	XXX	5 μmol/L
VALINE	mg/dl	85.36	μmol/L	XXX	5 μmol/L
AMINO ACID NITROGEN	mg/dl	0.7139	mmol/L	X.X	0.1 mmol/L
AMYLASE	U/L	1.0	U/L	XXO	10 U/L
ANDROSTENEDIONE	μg/L	3.492	nmol/L	XXX	0.5 nmol/L
CALCITONIN	pg/ml	1.0	ng/L	XXO	10 ng/L
CALCIUM	mg/dl	0.2495	mmol/L	X.XX	0.02 mmol/L
CALCIUM ION	meq/L	0.500	mmol/L	X.XX	0.01 mmol/L
CARBON DIOXIDE CONTENT	meq/L	1.00	nmol/L	XX	1 mmol/L
CHOLESTEROL	mg/dl	0.02586	mmol/L	X.XX	0.05 mmol/L
CITRATE (AS CITRIC ACID)	mg/dl	52.05	μmol/L	XXX	5 μmol/L
CORTISOL	μg/dl	27.59	nmol/L	XXO	10 nmol/L
C-PEPTIDE	ng/ml	0.331	nmol/L	X.XX	0.01 nmol/L
CREATININE	mg/dl	88.40	μmol/L	XXO	10 μmol/L
CREATININE CLEARANCE	ml/min	0.01667	ml/s	X.XX	0.02 ml/s
CYCLIC AMP	μg/L	3.038	nmol/L	XXX	1 nmol/L
CYCLIC GMP	μg/L	2.897	nmol/L	XXX	0.1 nmol/L
DEHYDROEPIANDROSTERONE	μg/L	3.467	nmol/L	XXX	0.2 nmol/L
DEHYDROEPIANDROSTERONE SULFATE	ng/ml	0.002714	μmol/L	XXX	0.1 μmol/L
11-DEOXYCORTISOL	μg/dl	28.86	nmol/L	XXO	10 nmol/L
EPINEPHRINE	pg/ml	5.458	pmol/L	XXO	10 pmol/L
ESTRADIOL	pg/ml	3.671	pmol/L	XXX	1 pmol/L

TABLE 1—Continued

MEASUREMENT	CONVENTIONAL UNIT	CONVERSION FACTOR	SI UNIT	SIGNIFICANT DIGITS	SUGGESTED MINIMUM INCREMENTS
ESTRONE	pg/ml	3.699	pmol/L	XXX	5 pmol/L
FATTY ACIDS, NONESTERIFIED	mg/dl	0.01	g/L	X.XX	0.01 g/L
FOLLICLE-STIMULATING HORMONE	mIU/ml	1.00	IU/L	XX	1 IU/L
FRUCTOSE	mg/dl	0.05551	mmol/L	X.XX	0.1 mmol/L
GALACTOSE	mg/dl	0.05551	mmol/L	X.XX	0.1 mmol/L
GASES					
PO ₂	mmHg	0.1333	kPa	XXX	0.1 kPa
PCO ₂	mmHg	0.1333kPa	X.X	0.1 kPa	
GASTRIN	pg/ml	1.0	ng/L	XXO	10 ng/L
GASTROINHIBITORY POLYPEPTIDE	pg/ml	0.201	pmol/L	XXO	10 pmol/L
GLUCAGON	pg/ml	1.0	ng/L	XXO	10 ng/L
GLUCOSE	mg/dl	0.05551	mmol/L	XX.X	0.1 mmol/L
GLYCEROL, FREE	mg/dl	0.1086	mmol/L	X.XX	0.01 mmol/L
GROWTH HORMONE	ng/ml	1.0	μg/L	XX.X	0.5 μg/L
β-HYDROXYBUTYRATE (AS β-HYDROXYBUTYRIC ACID)	mg/dl	96.05	μmol/L	XXO	10 μmol/L
17A-HYDROXYPROGESTERONE	μg/L	3.026	nmol/L	XX.X	0.5 nmol/L
INSULIN	μU/ml	7.17	pmol/L	XXX	5 pmol/L
LACTATE (AS LACTIC ACID)	mEq/L	1.0	mmol/L	X.X	0.1 mmol/L
LIPASE	U/L	1.0	U/L	XXX	1 U/L
LIPOPROTEINS				X.XX	
LDL (AS CHOLESTEROL)	mg/dl	0.02586	mmol/L	X.XX	0.05 mmol/L
HDL (AS CHOLESTEROL)	mg/dl	0.02586	mmol/L	XXX	0.05 mmol/L
LUTEINIZING HORMONE	mIU/ml	1.0	IU/L	X.XX	1 IU/L
NOREPINEPHRINE	pg/ml	0.005911	nmol/L	XXX	0.01 nmol/L
OSMOLALITY	mOsm/kg	1.0	mmol/kg	XX	1 mmol/k
PANCREATIC POLYPEPTIDE	pg/ml	0.239	pmol/L		1 pmol/L
PHOSPHATE (AS INORGANIC PHOSPHORUS)				X.XX	
	mg/dl	0.3229	mmol/L	X.XX	0.05 mmol/L
PHOSPHOLIPID PHOSPHORUS	mg/dl	0.3229	mmol/L	XX	0.05 mmol/L
PROGESTERONE	ng/ml	3.180	nmol/L	XX	2 nmol/L
PROLACTIN	ng/ml	1.0	μg/L	XX	1 μg/L
PROTEIN, TOTAL	g/dl	10.0	g/L	XX	1 g/L
PYRUVATE (AS PYRUVIC ACID)	mg/dl	113.6	μmol/L	XXX	1 μmol/L
RENIN	ng · ml ⁻¹ · h ⁻¹	0.2778	ng · L ⁻¹ · s ⁻¹	X.XX	0.02 ng · L ⁻¹ · s ⁻¹
SEROTONIN	μg/dl	0.05675	μmol/L	X.XX	0.05 μmol/L
SOMATOSTATIN	pg/ml	0.611	pmol/L	XX	1 pmol/L
TESTOSTERONE	ng/ml	3.467	nmol/L	XX.X	0.5 nmol/L
THYROID-STIMULATING HORMONE	μU/dl	1.0	mU/L	X.X	0.1 mU/L
THYROXINE	μg/dl	12.87	nmol/L	XXX	1 nmol/L
TRIODOXYTHYRONINE	ng/dl	0.01536	nmol/L	X.X	0.1 nmol/L
UREA NITROGEN	mg/dl	0.3570	mmol/L	X.X	0.5 mmol/L
VASOACTIVE INTESTINAL POLYPEPTIDE	pg/ml	0.331	pmol/L	X.X	1 pmol/L

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