ABBREVIATIONS USED IN THIS JOURNAL

The following list provides a useful guide to the preferred abbreviations of the more frequently used units and words other than units. Note that full points are omitted wherever possible, but always retained where confusion may otherwise be caused. Also note that, generally speaking, the plural is the same as the singular, i.e. "s" is not added.

Ad libitum	ad lib.
Alternating current	a.c.
Ampere	A
Analysis of variance	ANOVA
Ångström	Å
Ante meridian	a.m.
Atmosphere	atm
Atomic weight	at.wt.
Base pair	bp
Becquerel	Bq
Boiling point	b.p.
Calorie	cal
Centimeter	cm
Central nervous system	CNS
Circa	ca.
Colony-forming unit	cfu
Concentration that causes 50% inhibition	IC50
Concentration that is 50% effective	EC50
Correlation coefficient	*r*
Coulomb	C
Counts per minute	cpm
Counts per second	cps
Cubic centimeter	cm^3
Cubic inch	in^3
Cubic meter	m^3
Curie	Ci
Dalton	Da
Degrees	
Celsius	°C
Centigrade	°C
Fahrenheit	°F
Kelvin	K
Degree (temperature difference)	deg.
Degrees of freedom	df
Direct current	d.c.
Disintegrations per minute	dpm
Disintegrations per second	dps
Dose that causes 50% inhibition	ID_{50}
Dose that causes 50% lethality	LD_{50}
Dose that is 50% effective	ED_{50}
Electrocardiogram	ECG
Electroencephalogram	EEG
Electromagnetic unit	e.m.u.
Electromotive force	e.m.f.
Electron paramagnetic resonance	EPR
Electron spin resonance	ESR
Electron volt	eV
Electrostatic unit	e.s.u.
Enzyme-linked immunosorbent assay	ELISA
Experiment	Expt.
Extinction coefficient (specific)	$E_{\infty,\omega}$
Fast atom bombardment	FAB
Feet, foot	ft
Freezing point	f.p.
Gas chromatography–mass spectrometry	GC–MS
Gas–liquid chromatography	GLC
Gauss	G
Gram	g
Gram-molecule	mol
Gravitational acceleration	g
Gray (equivalent to 100 rads)	Gy
Hertz	Hz
High performance (pressure) liquid chromatography	HPLC
Hour(s)	h
Inch	in.
Infrared	i.r.
Internal diameter	i.d.
International unit	IU
International unit of absorbed dose of ionizing radiation	rad
Intramuscular	i.m.
Intraperitoneal	i.p.
Intravenous	i.v.
Joule	J
Kilobase	kb
Kilocalorie	kcal
Kilocycles per second	kHz
Kilodalton	kDa
Kilogram	kg
Kilometer	km
Kilovolt	kV
Kilowatt	kW
Liter	l
Logarithm	log
Logarithm (natural)	ln
Magnetomotive force	m.m.f.
Maximum velocity	V_{max}
Megaelectron volts	MeV
Megahertz	MHz
Melting point	m.p.
Meter	m
Michaelis constant	K_m
Microgram	μg
Microliter	μl
Micrometer ("micron")	μm
Micromolar	μM
Micromole	μmol
Millicurie	mCi
Milliequivalent	mEq
Milligram	mg
Milliliter	ml
Millimeter	mm
Millimolar	mM
Millimole	mmol
Millisecond	ms
Milliosmolar	mOsM
Minute(s)	min
Molar concentration	M
Molecular weight	MW
Nanometer	nm
Nanomole	nmol
Normal concentration	N
Nuclear magnetic resonance	NMR
Number	No.
Ohm	Ω
Optical density	O.D.
Outside diameter	o.d.
Parts per million	ppm
Per os (oral)	p.o.
Picomole	pmol
Polyacrylamide gel electrophoresis	PAGE
Post-meridian	p.m.
Probability	P
Proton magnetic resonance	PMR
Radian	rad
Relative molecular mass (relative mobility)	M_r
Revolutions per minute	rpm
Root mean square	r.m.s.
Second(s)	s
Sedimentation coefficient (specific)	$S_{20,w}$
Sievert	Sv
Species	sp
Specific activity	sp. act.
Specific gravity	sp. g.
Specific volume	sp. vol.
Square foot	ft^2
Square inch	in^2
Square meter	m^2
Standard deviation	S.D.
Standard error of the mean	S.E.M.
Standard temperature and pressure	S.T.P.
Subcutaneous	s.c.
Thin-layer chromatography	TLC
Ultraviolet	UV
Units	U
Versus	vs
Volt	V
Volume	vol.
Volume by volume	v/v
Watt	W
Weight	wt
Weight by volume	w/v

Prefixes to the Names of Units

Multiplier	Prefix	Symbol	Multiplier	Prefix	Symbol
10^{-1}	deci	d	10	deca	da
10^{-2}	centi	c	10^{2}	hecto	h
10^{-3}	milli	m	10^{3}	kilo	k
10^{-6}	micro	μ	10^{6}	mega	M
10^{-9}	nano	n	10^{9}	giga	G
10^{-12}	pico	p	10^{12}	tera	T
10^{-15}	femto	f	10^{15}	peta	P
10^{-18}	atto	a	10^{18}	exa	E

Listed below are internationally accepted biochemical abbreviations and their definitions, as well as abbreviations and definitions for other biochemicals that are used frequently. These abbreviations do not need to be defined.

BSA	bovine serum albumin
CoA	coenzyme A
DMSO	dimethyl sulfoxide
DNA	deoxyribonucleic acid
EDTA	ethylenediaminetetraacetic acid
EGTA	ethylene glycol-bis(β-aminoethyl ether)-*N*,*N*,*N*′,*N*′-tetraacetic acid
FAD	flavin adenine dinucleotide
GSH	reduced glutathione
GSSG	oxidized glutathione
HEPES	*N*-2-hydroxyethylpiperazine-*N*′-2-ethanesulfonic acid
NAD	nicotinamide adenine dinucleotide
NADH	reduced nicotinamide adenine dinucleotide
NADP	nicotinamide adenine dinucleotide phosphate
NADPH	reduced nicotinamide adenine dinucleotide phosphate
PBS	phosphate-buffered saline
RNA	ribonucleic acid
SDS	sodium dodecyl sulfate
Tris	2-amino-2-hydroxymethylpropane-1,3-diol

Accepted abbreviations may be used for 5′-ribonucleotides (GMP, ADP, UTP, etc.) and 5′-deoxyribonucleotides (dAMP, dCDP, dTTP, etc.).