

## Abbreviations that can be used without definition

**Unit** (The metric system is adopted as standard. If other measures are used for any reason, metric equivalents must be described in parentheses.)

absorbance (absorbance at 260 nm)	$A(A_{260})$	liter(s)	Spell out. When combined with prefixes of fractions, l is used, thus ml, $\mu$ l, nl, etc.
ampere	A	meter(s)	m
becquerel	Bq	Michaelis constant	$K_m$
dalton	Da	minute(s)	min
day(s)	d	molar [mole(s) liter <sup>-1</sup> ]	M
degree Celsius	°C	mole(s) (gram molecule)	mol
Kelvin	K	pascal	Pa
gram(s)	g	second(s)	s
gravitational acceleration	$g (5,000 \times g)$	Svedberg unit	S
hertz	Hz	tesla	T
hour(s)	h	volt(s)	V
joule	J	watt(s)	W

### Prefixes to the names of units

tera (10 <sup>12</sup> )	T	kilo (10 <sup>3</sup> )	k	milli (10 <sup>-3</sup> )	m	pico (10 <sup>-12</sup> )	p
giga (10 <sup>9</sup> )	G	deci (10 <sup>-1</sup> )	d	micro (10 <sup>-6</sup> )	$\mu$	femto (10 <sup>-15</sup> )	f
mega (10 <sup>6</sup> )	M	centi (10 <sup>-2</sup> )	c	nano (10 <sup>-9</sup> )	n	atto(10 <sup>-18</sup> )	a

### Specific

Symbols for amino acids (either three- or one-letter symbols) in proteins and bases in nucleic acids, as recommended by the IUPAC-IUB Commission on Biochemical Nomenclature.

abscisic acid	ABA	molecular weight	mol wt
5'-monophosphate of adenosine, cytidine, guanosine and uridine	AMP, CMP, GMP and UMP	relative molecular weight	$M_r$
adenosine 5'-diphosphate, etc.	ADP, CDP, GDP, UDP	2-( <i>N</i> -morpholino)-ethanesulfonic acid	MES
adenosine 5'-triphosphate, etc.	ATP, CTP, GTP, UTP	nicotinamide-adenine dinucleotide and its reduced form	NAD <sup>+</sup> and NADH
<i>N,N</i> -bis(2-hydroxyethyl)glycine	Bicine	nicotinamide-adenine dinucleotide phosphate and its reduced form	NADP <sup>+</sup> and NADPH
base (pair)	b(p)	orthophosphate	P <sub>i</sub>
chlorophyll	Chl	photosystem I or II	PSI or PSII
coenzyme A and its acyl derivatives	CoA, and acyl-CoA	phytochrome, far-red light absorbing form	P <sub>FR</sub>
concentration (in table)	conc	phytochrome, red light absorbing form	P <sub>R</sub>
counts per minute	cpm	polyacrylamide gel electrophoresis	PAGE
cytochrome	Cyt	polymerase chain reaction	PCR
deoxyribonuclease	DNase	precipitate (in table)	ppt
deoxyribonucleic acid	DNA	pyrophosphate	PP <sub>i</sub>
complementary DNA	cDNA	revolutions per minute	rpm
chloroplast DNA	ctDNA	ribonuclease	RNase
mitochondrial DNA	mtDNA	ribonucleic acid	RNA
nuclear DNA	nDNA	messenger RNA	mRNA
2,4-dichlorophenoxyacetic acid	2,4-D	ribosomal RNA	rRNA
3-(3,4-dichlorophenyl)-1,1-dimethylurea	DCMU	transfer RNA	tRNA
diethylaminoethyl	DEAE	sodium dodecylsulfate	SDS
disintegrations per minute	dpm	standard deviation	SD
dry weight (in table, and as a measure of material)	DW	supernatant (in table)	sup
ethylenediaminetetraacetic acid	EDTA	tris(hydroxymethyl)aminomethane	Tris
flavine-adenine dinucleotide and its reduced form	FAD and FADH <sub>2</sub>	<i>N</i> -tris(hydroxymethyl)methyl-2-aminoethanesulfonic acid	TES
flavine mononucleotide and its reduced form	FMN and FMNH <sub>2</sub>	<i>N</i> -tris(hydroxymethyl)methylglycine	Tricine
fresh weight (in tables and as a measure of material)	FW	ultraviolet	UV
gibberellin	Spell out. For specific gibberellin, use GA <sub>n</sub>	volume/volume	v/v
glutathione and its oxidized form	GSH and GSSG	weight/volume	w/v
high performance liquid chromatography	HPLC	weight/weight	w/w
<i>N</i> -2-hydroxyethylpiperazine- <i>N'</i> -2-ethanesulfonic acid	HEPES	For isotopes, use [ <sup>14</sup> C], [ <sup>35</sup> S], [ <sup>3</sup> H], etc.	
indole-3-acetic acid	IAA		