

Permitted Abbreviations

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| aa | amino acid (as in aa 120–155) |
| Ala (or A), Arg (or R), Asn (or N), etc. | alanine, arginine, asparagine, etc. |
| BCIP ('X-phosphate') | 5-bromo-4-chloro-3-indolyl phosphate |
| BrdU | 5-bromo-2'-deoxyuridine |
| CAT | chloramphenicol acetyltransferase |
| CM-cellulose | carboxymethylcellulose |
| CNBr | cyanogen bromide |
| CTL | cytotoxic T lymphocyte |
| CNS | central nervous system |
| CPE | cytopathic effect |
| DAB | diaminobenzene (=phenylenediamine) |
| DAPI | 4,6-diamidino-2-phenylindole |
| DEAE-cellulose | diethylaminoethyl cellulose |
| DEPC | diethyl pyrocarbonate |
| DIG | digoxigenin |
| ds, ss | double-stranded, single-stranded (as in ssRNA) |
| DTE | dithioerythritol |
| DTT | dithiothreitol |
| ECL | enhanced chemiluminescence |
| ED(A)C | ethyl(dimethylaminopropyl)carbodiimide |
| EGFP | enhanced green fluorescent protein |
| EM | electron microscopy |
| FACS | fluorescence-activated cell sorting |
| FAD | flavin-adenine dinucleotide |
| FCS, FBS | fetal calf serum, fetal bovine serum |
| FITC | fluorescein isothiocyanate |
| GFP | green fluorescent protein |
| GST | glutathione <i>S</i> -transferase |
| HAT medium | medium containing hypoxanthine, aminopterin and thymidine |
| HLA | human leukocyte antigen |
| HRP | horseradish peroxidase |
| IL | interleukin |
| IFN | interferon |
| IgG, IgM, etc. | immunoglobulin G, M, etc. |
| IRES | internal ribosome entry site |
| KLH | keyhole limpet haemocyanin |
| LAT | latency-associated transcript(s) |
| LPS | lipopolysaccharide |
| LTR | long terminal repeat |
| m.u. | map unit(s) |
| mAb | monoclonal antibody |
| MEM | minimum essential medium (and derivatives) |
| MHC | major histocompatibility complex |
| MTT | 3-(4,5-dimethylthiazol-2-yl)-2,5- diphenyltetrazolium bromide |

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|-------------------|--|
| NBT/BCIP | nitro blue tetrazolium/5-bromo-4-chloro-3-indolyl phosphate |
| NK | natural killer |
| NOG | n-octyl glucoside |
| nt | nucleotide (as in nt 120–155) |
| NTR | non-translated region |
| ORF | open reading frame |
| PBMC | peripheral blood mononuclear cell(s) |
| PEG | polyethylene glycol |
| PHA | phytohaemagglutinin |
| Pi, PPi | orthophosphate, pyrophosphate |
| PMA | phorbol myristate acetate |
| ppGpp | guanosine 3'-diphosphate 5'-diphosphate |
| pppGpp, etc. | guanosine 3'-diphosphate 5'-triphosphate |
| PVC | polyvinyl chloride |
| PVP | polyvinylpyrrolidone |
| RIPA | radioimmunoprecipitation assay |
| RT | reverse transcriptase/transcription (but not room temperature) |
| SSC | saline sodium citrate |
| SSPE | saline sodium phosphate/EDTA |
| TBE | Tris/borate/EDTA |
| TBS | Tris-buffered saline |
| TCA | trichloroacetic acid |
| TCF | tissue culture fluid(s) |
| TLCK | <i>N</i> - α -tosyl-L-lysyl chloromethane hydrochloride |
| TNF | tumour necrosis factor |
| TPA | tetradecanoyl phorbol acetate |
| TPCK | L-[(toluene-4-sulphonamido)-2-phenyl] ethyl chloromethyl ketone |
| TRITC | tetramethylrhodamine B isothiocyanate |
| UTR | untranslated region |
| wt, WT | wild-type |
| X-Gal | 5-bromo-4-chloro-3-indolyl β -D-galactopyranoside |
| Techniques | |
| FPLC | fast protein liquid chromatography |
| HPLC | high-pressure (performance) liquid chromatography |
| RACE | 3' and 5' rapid amplification of cDNA ends |
| RFLP | restriction fragment length polymorphism |
| TLC | thin-layer chromatography |
| Doses | |
| ED ₅₀ | median effective dose |
| Units | |
| c.f.u. | colony-forming units |
| e.o.p. | efficiency of plating |
| f.f.u. | focus-forming units |

Others

| | |
|-------|--|
| BBSRC | Biotechnology and Biological Sciences Research Council |
| CDC | Centers for Disease Control |
| MRC | Medical Research Council |
| NERC | Natural Environment Research Council |
| NIH | National Institutes of Health |
| WHO | World Health Organization |

The following abbreviations should not be defined

| | |
|------------------------------------|--|
| ADP, CDP, GDP, IDP, UDP, XDP, dTDP | 5'-pyrophosphates of adenosine, cytidine, guanosine, inosine, uridine, xanthosine, thymidine |
| AIDS | acquired immune deficiency syndrome |
| AMP, etc. | adenosine 5'-phosphate, etc. |
| ATP, etc. | adenosine 5'-triphosphate, etc. |
| ATPase, etc. | adenosine triphosphatase, etc. |
| bp and kbp | base pairs and kilobase pairs |
| BSA | bovine serum albumin |
| cAMP, etc. | adenosine 3',5'-phosphate, etc. |
| DEPC | diethyl pyrocarbonate |
| DMSO | dimethyl sulphoxide |
| DNA, cDNA, DNase | deoxyribonucleic acid, complementary DNA, deoxyribonuclease |
| DOTAP | <i>N</i> -[1-(2,3-dioleoyloxy)-propyl]- <i>N,N,N</i> -trimethylammonium salts |
| EDTA | ethylenediaminetetra-acetic acid |
| EGTA | ethyleneglycolbis(aminoethylether)tetra-acetic acid |
| IPTG | isopropyl β -D-thiogalactopyranoside |
| NAD | nicotinamide-adenine dinucleotide (NADH for reduced form) |
| NADP | nicotinamide-adenine dinucleotide phosphate (NADPH for reduced form) |
| PBS | phosphate-buffered saline |
| PMSF | phenylmethylsulphonyl fluoride |
| PVDF | polyvinylidene difluoride |
| RNA, cRNA, mRNA, nRNA, rRNA, tRNA | ribonucleic acid and complementary, messenger, nuclear, ribosomal and transfer RNA species |
| RNase | ribonuclease |
| SD, SEM | standard deviation, standard error of estimate of mean value |
| SDS | sodium dodecyl sulphate |
| UV | ultraviolet |
| Scintillants | |
| PPO | 2,5-diphenyloxazole |
| POPOP | 1,4-di-2-(5-phenyloxazolyl)benzene |
| dimethyl POPOP | 1,4-di-2-(4-methyl 5-phenyloxazolyl)benzene |

Buffers

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|---------|--|
| BES | <i>N,N</i> -bis(2-hydroxyethyl)-2-aminoethanesulphonic acid |
| CHAPS | 3-[(3-cholamidopropyl)-dimethylammonio]-1-propanesulphonic acid |
| HEPES | <i>N</i> -2-hydroxyethylpiperazine- <i>N</i> -2-ethanesulphonic acid |
| MES | 2-(<i>N</i> -morpholino)ethanesulphonic acid |
| MOPS | 3-(<i>N</i> -morpholino)propanesulphonic acid |
| PIPES | piperazine- <i>N,N</i> -bis-2-ethanesulphonic acid |
| TES | <i>N</i> -tris(hydroxymethyl)methyl-2-aminoethane-sulphonic acid |
| Tricine | <i>N</i> -tris(hydroxymethyl)methylglycine |
| Tris | tris(hydroxymethyl)methylamine |

Techniques

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|-------------|--|
| ELISA | enzyme-linked immunosorbent assay |
| PAGE | polyacrylamide gel electrophoresis |
| PCR, RT-PCR | polymerase chain reaction, reverse transcriptase polymerase chain reaction |

Doses

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|--------------------|--------------------------------------|
| IC ₅₀ | median inhibitory concentration |
| LD ₅₀ | median lethal dose |
| TCID ₅₀ | median tissue culture infective dose |

Units

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|----------------------|--|
| <i>M_r</i> | relative molecular mass (no units) |
| c.p.m. | radioactive counts per minute |
| d.p.m. | radioactive disintegrations per minute |
| m.o.i. | multiplicity of infection |
| p.f.u. | plaque-forming units |
| p.p.m. | parts per million |
| r.p.m. | revolutions per minute |
| sp. act. | specific activity |

Others

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|------|----------------------------------|
| ATCC | American Type Culture Collection |
|------|----------------------------------|