

Abbreviations

A	adenine
A _x	absorbance at x nm
ABRF	Association of Biomolecular Research Facilities
AFLP	amplified fragment length polymorphism
BBSRC	Biotechnology and Biological Sciences Research Council
BIPM	International Bureau of Weights and Measures
bp	base pair
BSA	bovine serum albumin
BSI	British Standards Institute
c7dGTP	7-deaza-2'-deoxyguanosine triphosphate
C	cytosine
cDNA	complementary DNA
CGH	comparative genome hybridisation
CRM	certified reference material
Ct	cycle threshold
CTAB	cetyltrimethylammonium bromide
CV	coefficient of variation
dATP	deoxyadenosine triphosphate
dCTP	deoxycytidine triphosphate
dGTP	deoxyguanosine triphosphate
DEFRA	Department of Environment, Food and Rural Affairs
DMSO	dimethyl sulfoxide
DNA	deoxyribonucleic acid
DNase	deoxyribonuclease
dNTP	deoxyribonucleotide triphosphate
DOP-PCR	degenerate oligonucleotide primed PCR
dsDNA	double-stranded DNA
DTI	Department of Trade and Industry
dTTP	deoxythymidine triphosphate
dUTP	deoxyuridine triphosphate
EBI	European Bioinformatics Institute
EC	European Community
EDTA	ethylenediaminetetraacetic acid

EGTA	ethyleneglycol-bis(β -aminoethyl ether)tetraacetic acid
EQA	external quality assessment
ERCC	External RNA Control Consortium
ESI	electrospray ionisation
EtBr	ethidium bromide
FDA	Federal Drug Administration
FRET	Förster Resonance Energy Transfer
FSA	Food Standards Agency
G	guanine
GAL	gene array list
GITC	guanidinium isothiocyanate
GLP	Good Laboratory Practice
GLPMA	GLP Monitoring Authority
GM(O)	genetically modified organism
HSE	Health and Safety Executive
HMW	high molecular weight
ICP	inductively coupled plasma
ICP-OES	inductively coupled plasma optical emission spectroscopy
IDMS	isotope dilution mass spectrometry
IEC	International Electrotechnical Commission
I-PEP	improved primer extension pre-amplification
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
kb	kilobase
LIMS	Laboratory Information Management System
LMP	ligation-mediated PCR
LNA	locked nucleic acid
LoD	limit of detection
LOH	loss of heterozygosity
LoQ	limit of quantification
MALDI-ToF	matrix assisted laser desorption ionisation time of flight
MDA	multiple displacement amplification
MGB	minor groove binder
MGED	Microarray Gene Expression Data Society
MHRA	Medicines and Healthcare Products Regulatory Agency
mPCR	multiplex PCR
mRNA	messenger RNA
MS	mass spectrometry
MWM	molecular weight marker
n/s	nucleotides per second
NCBI	National Center for Biotechnology
NIST	National Institute of Standards and Technology
NERC	Natural Environmental Research Council
NP40	nonidet P40
OD	optical density
OECD	Organisation for Economic Co-operation and Development

OES	optical emission spectroscopy
PAGE	polyacrylamide gel electrophoresis
PBS	phosphate buffered saline
PCR	polymerase chain reaction
PEG	polyethylene glycol
PEP	primer extension pre-amplification
PFGE	pulsed field gel electrophoresis
PNA	peptide nucleic acid
PVP	polyvinylpyrrolidone
PT	proficiency testing
QA	quality assurance
QC	quality control
QP	quality procedure
qPCR	quantitative PCR
qRT-PCR	quantitative reverse transcription PCR
RAPD	randomly amplified polymorphic DNA
RCA	rolling circle amplification
RFLP	restriction fragment length polymorphism
RIN	RNA integrity number
RM	reference material
RNA	ribonucleic acid
RNase	ribonuclease
rRNA	ribosomal RNA
RT-PCR	reverse transcriptase PCR
SBE	single base extension
SCOMP	single cell comparative genomic hybridisation
SDS	sodium dodecyl sulfate
SNP	single nucleotide polymorphism
SOP	standard operating procedure
SSC	salt sodium citrate
SSCP	single-strand conformation polymorphism
ssDNA	single-stranded DNA
STR	short tandem repeat
T	thymine
<i>Taq</i>	<i>Thermus aquaticus</i>
TE	tris-EDTA buffer
T _m	melting temperature
TLAD	T7-based linear amplification of DNA
TMAC	tetramethylammonium chloride
Tris	tris(hydroxymethyl)aminomethane
U	uracil
UKAP	United Kingdom Analytical Partnership
UKAS	United Kingdom Accreditation Service
UNG	uracil-N-glycosylase
UV	ultraviolet
VAM	Valid Analytical Measurements

WI	working instruction
WGA	whole genome amplification

Weights, volumes and concentrations

M	molar
mol	mole
g	gram
L	litre
v/v, vol/vol	volume per volume
w/v	weight per volume

Prefixes

m	milli (10^{-3})
μ	micro (10^{-6})
n	nano (10^{-9})
p	pico (10^{-12})
f	femto (10^{-15})
a	atto (10^{-18})
z	zepto (10^{-21})

Time

s	second
h	hour
min	minute