

ABBREVIATIONS

μg	Microgram
μl	Micro liter
μM	Micromolar
^{13}C	Carbon 13 isotope
^1H	Hydrogen 1 isotope
A	Adenine
A_{280}	Absorbance at 280 nm
A_{340}	Absorbance at 340 nm
AP	Alkaline phosphate
APS	Ammonium persulphate
Arg	Arginine
ATG	Translation initiation codon
ATP	Adenosine triphosphate
Boc	Ter-butoxycarbonyl
bp	Base pairs
BSA	Bovine serum albumin
C	Capsid
C	Cytosine
$^{\circ}\text{C}$	Degree celcius
cm	Centimeter
CaCl_2	Calcium chloride

Cys	Cyteine
cDNA	Complementary DNA
dATP	2' deoxyadenosine 5'-triphosphate
dCTP	2, deoxycytidine 5'-triphosphate
dGTP	2' deoxyguanosine 5'-tirphosphate
dH ₂ O	Distilled water
dNTP	Deoxythmidine 5'-triphosphate
dTTP	2' deoxythmidine 5'-triphosphate
DENV1	Dengue virus type-1
DENV2	Dengue virus type-2
DENV3	Dengue virus type-3
DENV4	Dengue virus type-4
DF	Dengue fever
DHF	Dengue hemorrhagic fever
Den1/E protein	Recombinant dengue-1 envelope protein
Den1/Ema	Den-1 major envelope protein
Den1/Em	Den-1 medium envelope protein
DMSO	Dimethyl sulfoxide
DNA	Deoxyribonucleic acid
Dnase	Deoxyribonuclease
DTT	Dithiothreitol
<i>et al</i>	et alia
E	Envelope
EG	Ellagic acid

E.protein	Envelope protein
E.coli	Escherichia coli
EDTA	Ethylenediaminetetraacetic acid
EtBr	Ethidium bromide
Fmoc	9-Fluorenylmethoxycarbonyl
g	gram
G	Guanine
GA	Gallic acid
Gly	glycine
HCl	Hydrogen chloride
HIV	Human Immunodeficiency Virus
His	Histidine
HPLC	High-performance liquid chromatography
IPTG	Isopropyl- β -thiogalactoside
i.e.	That is
IgG	Immunoglobulin G
IgM	Immunoglobulin M
JE	Japanese Encephalitis
kb	Kilobase
kDa	kiloDalton
KCl	Potassium chloride
KBr	Potassium bromide
Ki	Inhibition constant
kg	Kilogram

K_m	Michaelis-Menten constant
Leu	Leusine
Lys	Lysine
LB	Luria-bertani
M	Membrane
MCA	7-amino-4-methylcoumarin
mg	milligram
$MgCl_2$	Magnesium chloride
ml	milli liter
mM	milli molar
mRNA	Messenger RNA
MW	Molecular weight
NaCl	Sodium chloride
NaOH	Sodium hydroxide
NaH_2PO_4	Sodium dihydrogen phosphate
Ni^{2+} -NTA	Nickel-nitrilotriacetic acid
nm	Nano meter
NMR	Nuclear magnetic resonance
NS	Nonstructural
Phe	Phenylalanine
ppm	Part per million
preM	Precursor membrane
p.s.i.	Pound per square inch
R_f	Retention flow

RNA	Ribonucleic acid
Rnase A	Ribonucleic A
r.p.m	Revolutions per minute
(S)	Concentration substrate
Ser	Serine
SDS	Sodium Dodecyl Sulphate
SDS PAGE	Sodium Dodecyl Sulphate Polyacrylamide Gel Electrophoresis
T	Thymine
TBE virus	Tick-Borne Encephalitis virus
TLC	Thin layer chromatography
TEMED	N,N,N',N',tetramethylethylenediamine
T _m	Melting Temperature
U	Unit
UV	Ultraviolet
Val	Valine
v/v	volume/volume
V _{max}	Velocity maximum
WHO	World Health Organization
w/v	weight/volume