

## ABBREVIATIONS

Afa	Afimbrial adhesin
Amp	Ampicillin
AP	Alkaline phosphatase
APS	Ammonium persulphate
AT	Autotransporter
BCIP	5-bromo-4-chloro-3-indoyl phosphate
BLAST	Basic Local Alignment Search Tool
Bp	Base pair
BSA	Bovine serum albumin
CaCl <sub>2</sub>	Calcium chloride
CANS	Community-acquired neonatal sepsis
CFU	Colony-forming unit
CI	Confidence Interval
cm	Centimeter
CPCSEA Experiments	Committee for the Purpose of Control and Supervision of on Animals
CNF 1	Cytotoxic necrotising factor 1
CRP	C-reactive protein
CSF	Cerebrospinal fluid
CTAB	Cetyl trimethyl ammonium bromide
DAEC	Diffusely adherent <i>Escherichia coli</i>
DEAE	Diethyl aminoethyl cellulose
°C	Degree Centigrade
DEPC	Diethyl pyrocarbonate
DMEM	Dulbuco's Minimum Essential Medium

DMF	N,N-Dimethyl formamide
DMSO	Dimethyl sulphoxide
dNTP	Deoxyribonucleotide tri phosphate
DTT	Dithiothretol
EAEC	Enteroaggregative <i>Escherichia coli</i>
EatA	ETEC autotransporter A
EDTA	Ethylene diamine tetra acetic acid
EIEC	Enteroinvasive <i>Escherichia coli</i>
ELISA	Enzyme linked Immunosorbent assay
EOS	Early onset sepsis
EPEC	Enteropathogenic <i>Escherichia coli</i>
ESBL	Extended spectrum beta-lactamase
EspC	EPEC secreted protein C
EspP	Extracellular serine protease plasmid encoded
ETEC	Enterotoxigenic <i>Escherichia coli</i>
ExPEC	Extraintestinal pathogenic <i>Escherechia coli</i>
FBS	Fetal bovine serum
GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
g	Gram
GBS	Group B Streptococcus
HAP	Haemagglutinin protease
hrs	hours
Hbp	Haemoglobin protease
HL	Highly lethal
HlyA	$\alpha$ -hemolysin
HRP	Horseradish peroxidase
IAEC	Institutional Animal Ethics Committee

IbeA	Invasion of brain endothelium factor A
IL	Interleukin
IPEC	Intestinal pathogenic <i>E. coli</i>
Kb	Kilo bases
KDa	Kilo Dalton
LA	Luria agar
LB	Luria-Bertani
LBP	Liposaccharide-binding protein
LOS	Late onset sepsis
LPS	Lipopolysaccharide
MALDI-TOF	Matrix-assisted laser desorption ionization time of flight
MEM	Minimum Essential Medium
MeOSuc-AAPM nitroanilide pNA	Methoxysuccinyl-alanine-alanine-proline-methionine para
MgCl <sub>2</sub>	Magnesium chloride
μ	Micron
Mins	Minutes
μl	Micro liter
ML	Moderately lethal
μM	Micro molar
mM	Milli molar
MM	Molecular Marker
NaCl	Sodium chloride
NBT	p-nitro blue tetrazolium chloride
NC	Negative control
ng	Nano gram
NICU	Neonatal intensive care unit

Ni-NTA	Nickel Nitrilotriacetic acid
NL	Non-lethal
Nm	Nano meter
NNPD	National Neonatal Perinatal Database
NSEC	Neonatal septicemic <i>Escherichia coli</i>
OD	Optical Density
OmpA	Outer membrane protein A
OmpC	Outer membrane protein C
PAGE	Polyacrylamide gel electrophoresis
PD	Passenger domain
PapC	Pyelonephritis-associated pili C
PCR	Polymerase chain reaction
PCT	Procalcitonin
Pet	Plasmid encoded toxin
PFGE	Pulsed field gel electrophoresis
Pic	Protease involved in intestinal colonization
Pg/ml	Picogram per milliliter
PMSF	Phenyl methyl sulfonyl fluoride
PROM	Premature rupture of membranes
RPMI	Roswell Park Memorial Institute Medium
Rpm	Revolutions per minute
RT	Room temperature
RT-PCR	Reverse Transcriptase Polymerase chain reaction
SAA	Serum Amyloid A
Sat	Secreted autotransporter toxin
SDS	Sodium dodecyl sulphate
Sec	Seconds

SepA	<i>Shigella</i> extracellular protein A
Sfa	S fimbrial adhesin
SMA	Skim milk assay
SPATE	Serine Protease Autotransporters of <i>Enterobacteriaceae</i>
STEC	Shiga-toxin producing <i>Escherichia coli</i>
TAE	Tris Acetic acid EDTA
TBE	Tris Boric acid EDTA
TBS	Tris buffer saline
TCA	Tri chloro acetic acid
TE	Tris EDTA
TEMED	N,N,N',N'-tetramethyl-ethylenediamine
TFA	Tri fluoro acetic acid
TNF- $\alpha$	Tumor necrosis factor- $\alpha$
Tris	Tris (hydroxymethyl) aminomethane
TSA	Tryptic Soya Agar
TSB	Tryptic Soya Broth
Tsh	Temperature-sensitive hemagglutinin
TTBS	Tween-20 tris buffer saline
T2SS	Type II secretion system
UPEC	Uropathogenic <i>Escherichia coli</i>
UPGMA	Unweighted pair group method
UTI	Urinary tract infection
Vat	Vacuolating autotransporter toxin
VF	Virulence factor
VLBW	Very low birth weight
WHO	World Health Organization
Zn	Zinc