

LIST OF ABBREVIATIONS

ACRONYMS	MEANING
%	Percentage
<	Greater than
>	Lesser than
A	Adenine
A260	Absorbance at 260 nm
A280	Absorbance at 280 nm
AFLP	Amplified ^{fragments} length polymorphism
AMOVA	Analysis of molecular variance
AnGR	Animal genetic resources
ANN	Artificial neural networks
APS	Ammonium per sulphate
ATP	Adenosine tri phosphate
BLAST	Basic Local Alignment Search Tool
bp	base pair
C	Cytosine
cDNA	Complimentary deoxyribonucleic acid
cm	Centimeter
CSIR	Council of Scientific and Industrial Research
D	Dwarf
d.f.	Degree of freedom
DDH ₂ O	Double distilled water
DNA	Deoxyribonucleic acid
dNTPs	Deoxyribonucleotide tri phosphate
E. Coli	<i>Escherichia coli</i>
EDTA	Ethylene ^{diamine} tri phosphate
EST	Expressed sequence tags
EtBr	Ethidium bromide
FAO	Food and Agriculture Organization
G	Guanine

HF	Holstein Friesian
i.e.	that is
IAM	Infinite allele model
ICAR	Indian Council of Agricultural Research
IPC	Integrated plate caster
ISAG	International society of animal genetics
KAM	K-allele model
Kb	Kilobase
Kg	Kilogram
L	Large
M	Medium
MDS	Multidimensional scaling
mg	Miligram
MgCl ₂	Magnesium chloride
min	Minute
MITS	Madhav institute of science and technology
ml	Mili liter
mM	Milimolar
MoDAD	Maintenance of Domesticated Animal Diversity
Mt-DNA	Mitochondrial DNA
NaOH	Sodium Hydroxide
NBAGR	National bureau of animal genetic resources
NCBI	National centre for biotechnology information
NJ	Neighbor joining
nm	nanometer
Nm	Nano mole
No.	Number
NR	Non recognized
OD	Optical density
PAGE	Polyacrylamide gel electrophoresis
PCA	Principal component analysis

PCR	Polymerase chain reaction
PCR- RAPD	Polymerase chain reaction- Randomly amplified polymorphic DNA
PCR- RFLP	Polymerase chain reaction-restricted fragment length polymorphism
PCR-SSCP	Polymerase chain reaction- single strand confirmation polymorphism
pH	Negative logarithm of hydrogen ion
PIC	Polymorphic information content
Pmol	Picomole
POUF taq	Proof reading taq polymerase
QTL	Quantitative trait loci
RAPD	Random amplified polymorphic DNA
RBC	Red blood capsules
RE	Restriction endonuclease, Restriction enzyme
RFLP	Restriction fragment length polymorphism
RNA	Ribonucleic acid
rpm	Rotation per minute
S	Small
S.No	Serial number
SDS	Sodium dodecyl sulphate
SMM	Stepwise mutation model
SNP	Single nucleotide polymorphism
SSCP	Single strand conformational polymorphism
ssDNA	Single strand DNA
SSR	Simple sequence repeats
STMR	Sequence tagged microsatellite repeats
STMR	Sequence tagged microsatellite repeats
STR	Short tandem repeat polymorphism
STS	Sequence tagged sites
T	Thymine
TAE	Tris acetate EDTA
TBE	Tris borate EDTA

TE	Tris EDTA
TEMED	N, N, N', N'-tetramethylene diamine
TPM	Two phase model
Tris-HCl	Tris- (hydroxyl methyl amino methane)
U	Unit
UPGMA	Unpaired Group Mean Average
UV	Ultraviolet
V	Voltage
VNTR	Variable number tandem repeat
WBC	White blood capsules
μ l	Microlitre
μ M	Micro molar