

# LIST OF ABBREVIATIONS

A	Adenine
AA	Acetic acid
ADP	Adenine Di-phosphate
AFLP	Amplified fragment length polymorphism
ALP	Alkaline phosphatase
ALT	Alanine amino-transferase
APC	Antigen Presenting Cell
AST	Aspartate amino-transferase

B cells	B lymphocytes, (WBC subtype)
BLAST	Basic Local Alignment Search Tool
bp	Base pair
BALB/c	Bagg Albino, immunodeficient inbred strain.
BSA	bovine serum albumin

CFU	Colony Forming Unit
CD	Crohn's disease
CO <sub>2</sub>	Carbon Di-oxide
CW	Cow Milk
CU	Curd
CaCl <sub>2</sub>	Calcium chloride
CA	California
C	Cytosine
CB	

DNA	Deoxyribonucleic Acid
DSS	Dextran Sulfate Sodium
DAI	Disease Activation Index
DBT	Department of Biotechnology
DDBJ	DNA Data Bank of Japan
DGGE	Denaturing Gradient Gel Electrophoresis
DC	Dendritic Cell
dNTPs	Deoxy-nucleotide Triphosphates
DPPH	$\alpha$ , $\alpha$ -Diphenyl- $\beta$ -Picryl-Hydrazyl

<i>E. coli</i>	<i>Escherichia coli</i>
EMBL	European Molecular Biology Laboratory
Et-Br	Ethidium Bromide
EDTA	Ethylenediaminetetraacetic acid
E Test	Epsilometer test
EMB	Eosin Methylene Blue agar
etc.	Et cetera
ELISA	Enzyme-Linked Immunosorbent Assay

FDA	Food and Drug Administration
9 “F”	“Forward” primer
FOS	Fructo-oligosaccharides

gm	Gram
gm/L	Gram/Liter
G	Guanine
GIT	Gastro-intestinal Tract

h	Hour
HMS	Human Milk Sample
HCl	Hydrogen Chloride
HRP	Horseradish Peroxidase

IL	Interleukin
IFN	Interferons
IBS	Irritable Bowel Syndrome
IBD	Inflammatory Bowel Disease
ICMR	Indian Council for Medical Research
<i>in vitro</i>	“in glass”
<i>in vivo</i>	“within the living”
Ig	Immunoglobulin
IMTECH	Institute of Microbial Technology
ID	Identity
i.e.	That is

Kb	Kilobase
KCl	Potassium chloride
KOH	Potassium hydroxide
Kg	Kilogram

LBI	Loss of Body Mass Index
<i>L. fermentum</i>	<i>Lactobacillus fermentum</i>
LAB	Lactic Acid Bacteria
Ltd.	Limited

M	Molar
mM	Mili- Molar
'M' cells	'Microfold' cells
'MRS' media	'Man, Rogosa and Sharpe' media
mL	Milliliter
MgCl <sub>2</sub>	Magnesium Chloride
MEGA	Molecular Evolutionary Genetics Analysis
MTCC	Microbial Type Culture Collection
mins.	Minutes
mA	Milli-Ampere

NF-κβ	Nuclear Factor- κβ
NK	Natural Killer
NaCl	Sodium chloride
Na <sub>2</sub> HPO <sub>4</sub>	Disodium hydrogen phosphate
NaHCO <sub>3</sub>	Sodium bicarbonate
NCBI	National Center for Biotechnology Information
nm	Nanometer
(N)	(Normality)

O.D.	Optical Density
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pH	potential of Hydrogen
PAGE	Polyacrylamide gel electrophoresis
PFGE	Pulse Field Gel Electrophoresis
PBMCs	Peripheral blood mononuclear cells
PCR	Polymerase Chain Reaction
Pvt.	Private
ppm	Parts per million

rRNA	Ribosomal Ribonucleic Acid
RBI	Rectal Bleeding Index
RFLP	Restriction fragment length polymorphism
RAPD	Random Amplification of Polymorphic DNA
1492 'R'	1492 'Reverse' primer
ROS	Reactive oxygen species
rpm	Revolutions per minute
R	Resistant

SGOT	Serum Glutamic Oxaloacetic Transaminase
SGPT	Serum Glutamic Pyruvic Transaminase
SCI	Stool Consistency Index
16 'S'	16 'Svedberg' unit
SCFA	Short-chain fatty acids
SDS	Sodium Dodecyl Sulfate
SD	Standard Deviation
SRL	Super Religare Laboratories
sp.	species
SEM	Scanning Electron Microscopy
S	Sensitive

TNF $\alpha$	Tumor necrosis factor $\alpha$
TNBS	2,4,6-Trinitrobenzenesulfonic Acid
T cells	T lymphocytes
T reg	T regulatory cells
TGF- $\beta$	Transforming growth factor beta
TH-1, TH-2	T Helper cells (1,2)
TDCA	Tauro-deoxy-cholic-acid
T	Thymine
TB	Total Bilirubin
TBST	Tris Buffered Saline with Tween

UC	Ulcerative Colitis
USA	United States of India
UK	United Kingdom
UB	Un-conjugated Bilirubin

V	Volt
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WHO	World Health Organization
WBC	White Blood Cells

YG	Yoghurt
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$\mu$	Micron
$\mu\text{L}$	Micro-Litre
$\mu\text{g}$	Micro-gram
$^{\circ}\text{C}$	Degree Centigrade
$^{\circ}\text{F}$	Degree Fahrenheit
$\alpha$	Alpha
$\gamma$	Gamma
$\kappa$	Kappa
$\beta$	Beta
%	Percentage
(+) ve	Positive
(-) ve	Negative