

## **List of Abbreviations**

Acidic PA	Acidic phosphatase activity
Alkaline PA	Alkaline phosphatase activity
ASA	Arylsulphatase activity
BLAST	Basic local alignment search tool
bp	Base pair
CFU	Colony forming unit
cm	Centimeter
Cr(VI)	Chromate
CRD	Chokari
CTAB	Cetyl trimethylammonium bromide
D/W	Distilled water
DGGE	Denaturing gradient gel electrophoresis
DHA	Dehydrogenase activity
DNA	Deoxyribonucleic acid
dNTPs	Deoxynuclotide triphosphate
EC	Electrical conductivity
FDA HA	Fluorescein diacetate hydrolysis activity
Inorg. C	Inorganic Carbon
ka	Kilo-annum
MPN	Most probable number
Org. C	Organic Carbon
PCA	Principal component analysis
PCR	Polymerase chain reaction

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pNP	para-nitrophenol
PTA	Protease activity
qPCR	Quantitative polymerase chain reaction
R2A agar	Reasoner's 2A agar
RDP database	Ribosomal Database Project database
REEs	Rare earth elements
RMD	Rampura
rRNA	Ribosomal ribonucleic acid
RYD	Rayka
TDS	Total dissolved solids
β-GA	Beta-glucosidase activity

**Note:** The full forms of several rarely used abbreviations have been described within the text.

## List of Symbols

<b>%</b>	Percentage
<b>xg</b>	g-force
<b>°C</b>	Centigrade
<b>3'</b>	3 prime
<b>5'</b>	5 prime
<b>g</b>	Gram
<b>h</b>	Hour
<b>l</b>	Liter
<b>M</b>	Molar
<b>m</b>	Milli ( $10^{-3}$ )
<b>min</b>	Minute
<b>n</b>	Nano ( $10^{-9}$ )
<b>s</b>	Second
<b>U</b>	Unit
<b>V</b>	Voltage
<b>α</b>	Alpha
<b>β</b>	Beta
<b>γ</b>	Gamma
<b>μ</b>	Micro ( $10^{-6}$ )