

## Abbreviations

PDA	Potato Dextrose Agar	RBA	Rose Bengal Agar
CDA	Czapek Dox Agar	Rh Tr	<i>Rhizobium</i> and <i>Trichoderma</i> mixture
Az Tr	<i>Azotobacter</i> and <i>Trichoderma</i>	Tr	<i>Trichoderma</i>
Ben	Benomyl	Con	Control
Rh	<i>Rhizobium</i>	Az	<i>Azotobacter</i>
Rh Az	<i>Rhizobium</i> and <i>Azotobacter</i>	H	Hybrid
LC	Local Check	MEA	Malt Extract Agar
WA	Water Agar	2,4-D	2,4-Dichloro phenoxy acetic acid
TS	Tocklai seed Variety	AG	Anastomosis Group
DNA	Deoxy ribonucleic acid	RNA	Ribonucleic acid
CIE	Crossed Immuno Electrophoresis	ELISA	Enzyme Linked Immunosorbent Assay
Pf	<i>Phytophthora fragariae</i>	Pf M	Antiserum of <i>Phytophthora fragariae</i>
CRA	Cross Reactive Antigens	KDa	Kilodalton
TV	Tocklai Variety	FITC	Fluorescein Isothiocyanate
IgG	Immunoglobulin G	FO	<i>Fusarium Oxysporum</i>
DAS-ELISA	Double Antibody Sandwich Enzyme Linked Immunosorbent Assay	Anti-Bc IgG	Anti- <i>Botrytis cinerea</i> Immunoglobulin G

BC	<i>Bipolaris carbonum</i>	PAbs	Polyclonal antibodies
PTA-ELISA	Plate Trap Antigen Enzyme Linked Immunsorbent Assay	MLO	Mycoplasma Like Organism
ID-ELISA	Indirect Enzyme Linked Immunsorbent Assay	RBSDV	Rice Black-Streaked Dwarf Virus
PVY	<i>Potato Virus Y</i>	PVA	Potato Virus A
PVX	<i>Potato Virus X</i>	PVM	Potato Virus M
PVS	<i>Potato Virus S</i>	ECM	Extra Cellular Matrix
PNL	<i>Pinus nigra</i> ARN lectin	TEM	Transmission Electron Microscopy
PGPR	Plant Growth Promoting Rhizobacteria	HCN	Hydrogen Cyanide
ISR	Induced Systemic Resistance	TV2	Trichoderma viride isolate-2
ITCC	Indian Type Culture Collection	Pf	Pseudomonas fluorescense
MALDI TOF	Matrix-Assisted Laser Desorption/ Ionization Time of Flight	BCA	Bio Control Agent
TLC	Thin Layer Chromatography	ATCC	American Type Culture Collection
CHCl <sub>3</sub>	Chloroform	CH <sub>3</sub> OH	Methanol
RF	Retention Factor	MIC	Minimum Inhibitory Concentration
NCIM	National Collection of Industrial Microorganisms	Foc	<i>Fusarium oxysporum</i> f. sp <i>chrysanthemi</i>
MA	<i>Mentha arvensis</i>	TP	<i>Tagetes patula</i>
ES	<i>Eucalyptus</i> sp.	DS	<i>Datura stramonium</i>
CP	<i>Calotropis procera</i>	LS	<i>Lantana</i> sp.

RC	Ricinus communis	CR	<i>Catharanthus roseus</i>
PP	Partially Purified	CP	Completely Purified
SBM	Standard Blotter Method	APM	Agar Plate Method
ISTA	International Seed Testing Association	IARI	Indian Agriculture Research Institute
PDB	Potato Dextrose Broth	OMA	Oat Meal Agar
REA	Root Extract Agar	MEA	Malt Extract Agar
PCA	Potato Carrot Agar	RM	Richard's Medium
R.A	Richard's Agar	YEMA	Yeast Extract Mannitol Agar
NA	Nutrient Agar	lb	Pound
p.s.i.	Per Square Inch	g	Gram
mm	Milimeter	°C	Degree Centigrade
ml	Mililitre	Kg	Kilogram
cm	Centimeter	PVP	Polyvinyl Pyrrolidone
M	Molar	BSA	Bovine Serum Albumin
mAmp	Miliampere	V	Volt
h	Hour	PBS	Phosphate Buffer Saline
µl	Micro litre	TMB	Tetramethylbenzidine
N	Normal	nm	Nano meter
h	Hour	µm	Micro meter
SPSS	Statistical Packages for the Social Sciences	Scl	Sclerotia
d	Day	OMB	Oat Meal Broth

mg	Miligram	Wt	Weight
Mwt	Mycelial Dry Weight	RsA	<i>Rhizoctonia solani</i> Antisera
Rsa	<i>Rhizoctonia solani</i> antigen	520a	520 root antigen (520- Tocklai seed variety)
449a	449 root antigen	449A	Antisera of root variety 449
520A	Antisera of root variety 520	OD	Optical Density
µg	Micro gram	PCR	Polymerase Chain Reaction
RFLP	Restriction Fragment Length Polymorphism	RAPD	Random Amplified Polymorphic DNA
ITS	Internal Transcribe Spacer	APMC	Agriculture Produce Market Committee
MYA	Malt Yeast Agar	CZA	Czapki Dox Agar