

Illustration of Photographs

Plate – I

Fig. A – Forest plantation in Ratanmahal Wild Life sanctuary .

Fig. B – Picture showing entry gate of Ratanmahal WLS.

Fig. C, D – Pictures of Shoolpaneshwar WLS.

Fig. E – Bamboo plantation in Jambughoda WLS.

Fig. F – Pavagadh forest area

Plate – II

Fig. A, C, E – Diseased leaves of *Tectona grandis*.

Fig. B – Fungal spores of *Lasiodiplodia theobromae* (1000x Leica DME)

Fig. D – Spores of *Phomopsis tectonae* (1000x)

Fig. F – *Fusarium pallidoroseum* conidia. (400x)

Fig. G – Ascospores and cleistothecia of *Thelevia subthermophila*.

Plate – III

Fig. A, C, E, - Leaf spots present in *Bambusa arundinacea*.

Fig. B. – Fungal spores of *Drechslera rostrata*. (400x)

Fig. D – Fungal spores of *Melanconiopsis microspora* (400x)

Fig. F – Old Conidia of *Pestalotiopsis maculans*. (1000x)

Plate – IV

Fig. A – Pathogenecity test performed on *T. grandis* leaf. (P = Polyethylene bag)

Fig. B, C, D – Reappearance after infection in *T. grandis* leaf after artificial inoculation.

Fig. E – Conidia of *Pestalotiopsis disseminata* isolated from *Terminalia arjuna* leaf.
(Note presence of 3 appendages at the top).

Fig. F – Conidia of *Gleoesporium gleoesporoides* isolated from *T. arjuna* leaf.

Plate – V

Fig. A – Paper chromatogram showing utilization of sucrose by *P. disseminata*.

Fig. B – Paper chromatogram showing utilization of sucrose by *P. maculans*.

Fig. C – Paper chromatogram utilizing sucrose by *Phomopsis tectonae*.

Fig. D – Paper chromatogram showing utilization of sucrose in 10 days by *Lasioidiplodia theobromae*

Plate – VI

Fig. 1 – Inhibition of *Pestalotiopsis disseminata* in leaf extract of *Alangium salviifolium*.
(methanolic extract)

Fig. 2 – Growth of *P. disseminata* in control and methanolic extract of *Alysicarpus vaginalis*.

Fig. 3 – Inhibition of *P. disseminata* in leaf extract of *Cymbopogon martini* (methanolic).

Fig. 4 – Inhibition by *P. disseminata* in extract of *Pluchea lanceolata* (methanolic).

Plate – VII

Fig. 1 – Inhibition by *P. maculans* in leaf extract of *Alangium salviifolium* (methanolic).

Fig. 2 – Growth of *P. maculans* in leaf extract of *Alysicarpus vaginalis* (methanolic).

Fig. 3 – Inhibition of *P. maculans* in leaf extract of *Cymbopogon martini* (methanolic).

Fig. 4 – Inhibition of *P. maculans* in extract of *Pluchea lanceolata* (methanolic).

Plate VIII

Fig. 1 – Growth of *P. maculans* in control and methanolic extract of *Withania somnifera*.

Fig. 2 – Growth of *P. maculans* in control and methanolic extract of *Pluchea lanceolata*.

Plate IX Effect of Methanolic leaf extracts:

Fig. 1 - Growth of *Phomopsis tectonae* in *Alangium salviifolium*.

Fig. 2 – Growth of *P. tectonae* in *Butea monosperma*

Fig.3 – Growth of *P. tectonae* in of *Cymbopogon martini*.

Fig. 4 – Growth of *P. tectonae* in *Withania somnifera*.

Plate X Effect of Methanolic leaf extracts:

Fig.1 - Growth of *Lasiodiplodia theobromae* in *Alangium salvifolium*.

Fig.3 – Growth of *L. theobromae* in *Cymbopogon martini*.

Fig.3 – Growth of *L. theobromae* in *Dalbergia sisso*.

Fig. 4 – Growth of *L. theobromae* in *Withania somnifera*.

Plate XI

Plants selected for botanical control experiments to select suitable biopesticide.

Fig. A Plant of *Alangium salvifolium*

Fig. B Plant of *Alysicarpus vaginalis*

Fig. C Plant of *Butea monosperma*

Fig. D Plant of *Cymbopogon martini*

Fig. E Plant of *Dalbergia sisso*

Fig. F Plant of *Pluchea lanceolata*

Fig. G Plant of *Vogelia indica*

Fig. H Plant of *Withania somnifera*

Plate XII

Fig. 1 - Growth of *Drechslera rostrata* in methanolic leaf extract of *Datura stramonium*.

Fig.3 – Growth of *Thelevia subthermophila* in methanolic leaf extract of *Datura stramonium*.

Fig.3 – Growth of *Fusarium pallidoroseum* in methanolic leaf extract of *Terminalia arjuna*.

PLATE - I



PLATE - II

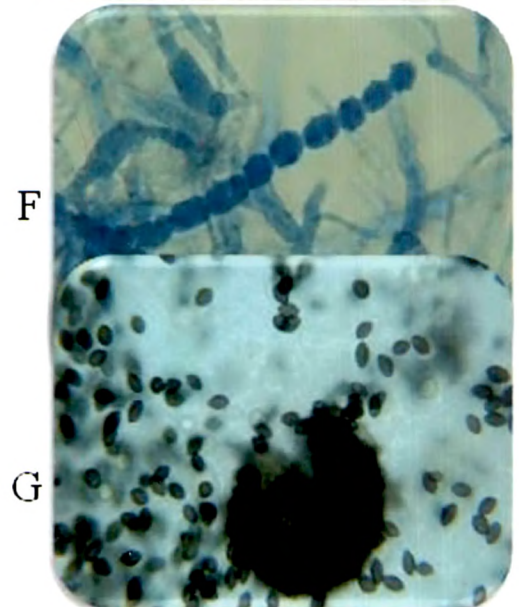
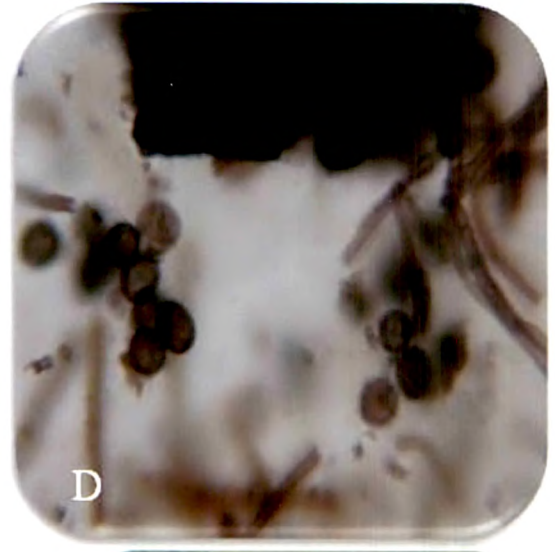
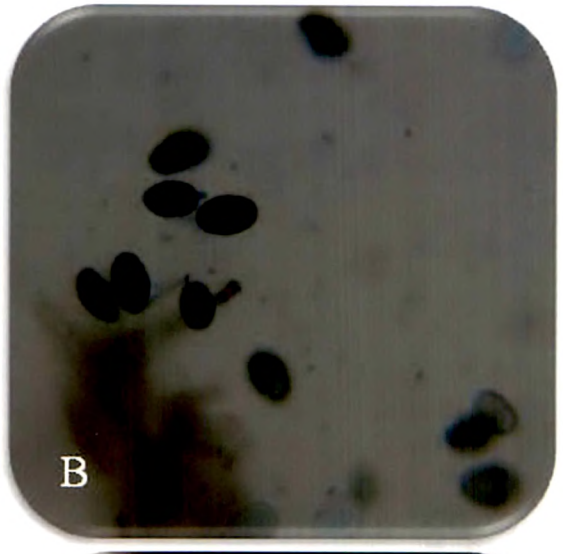


PLATE - III

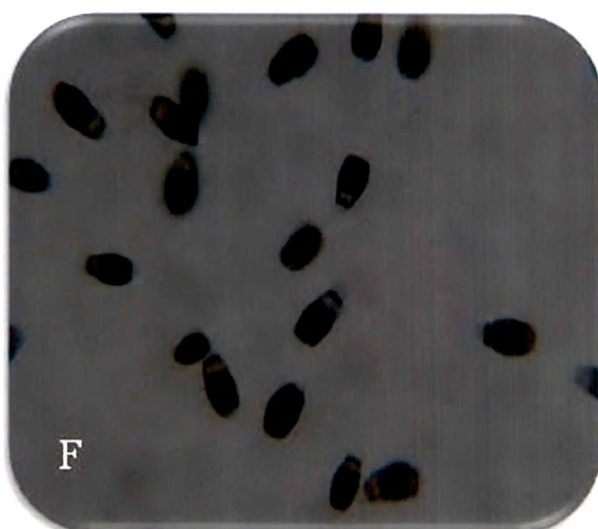
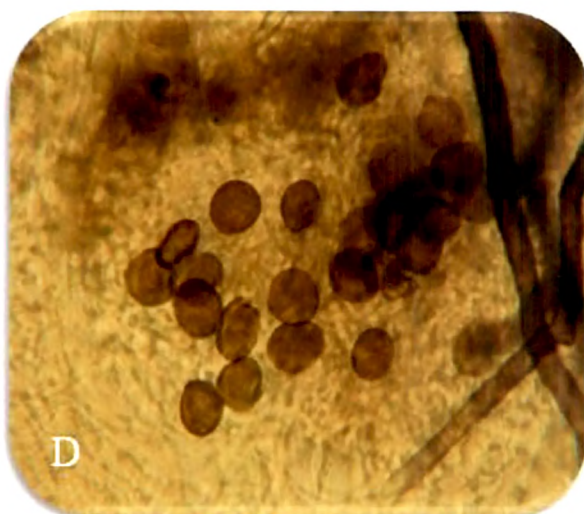


PLATE - IV

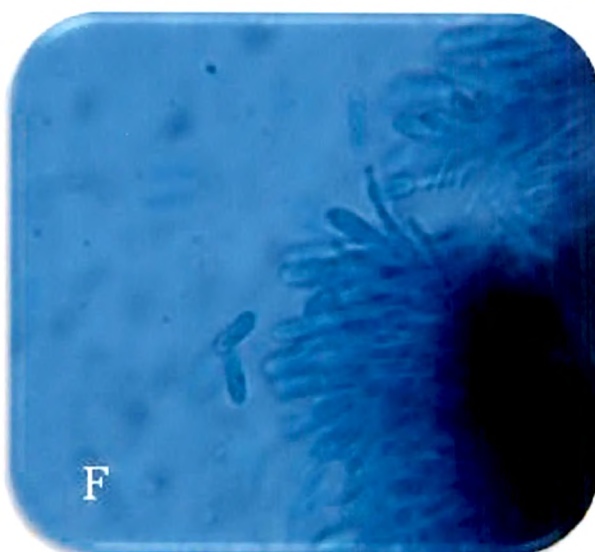
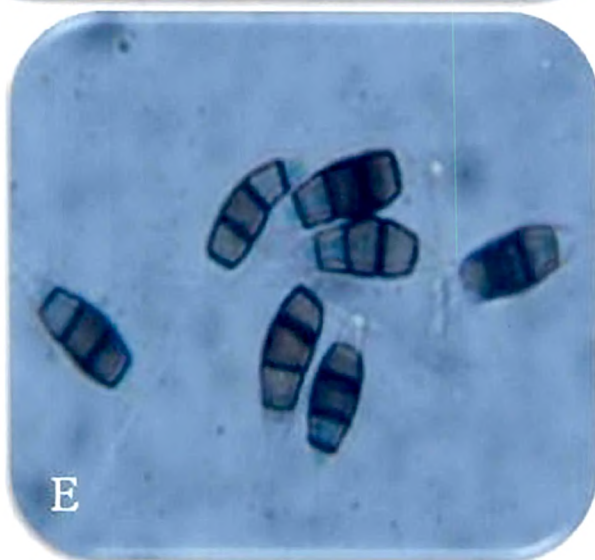


PLATE-V

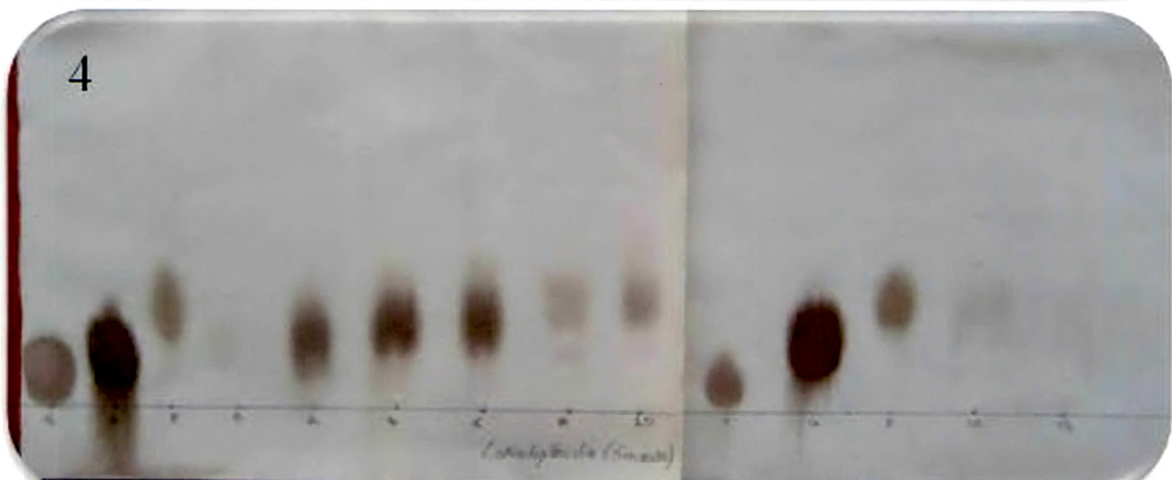
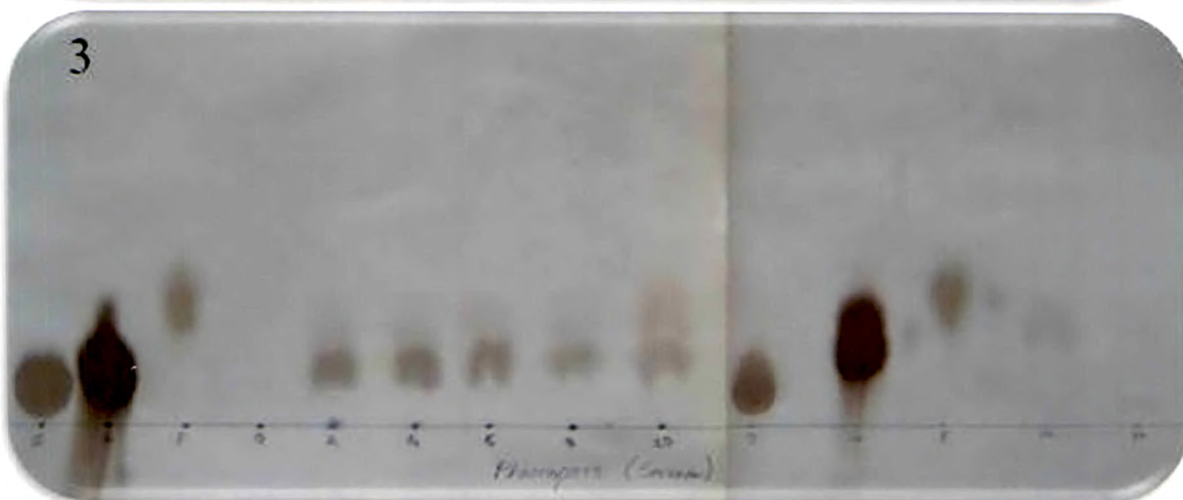
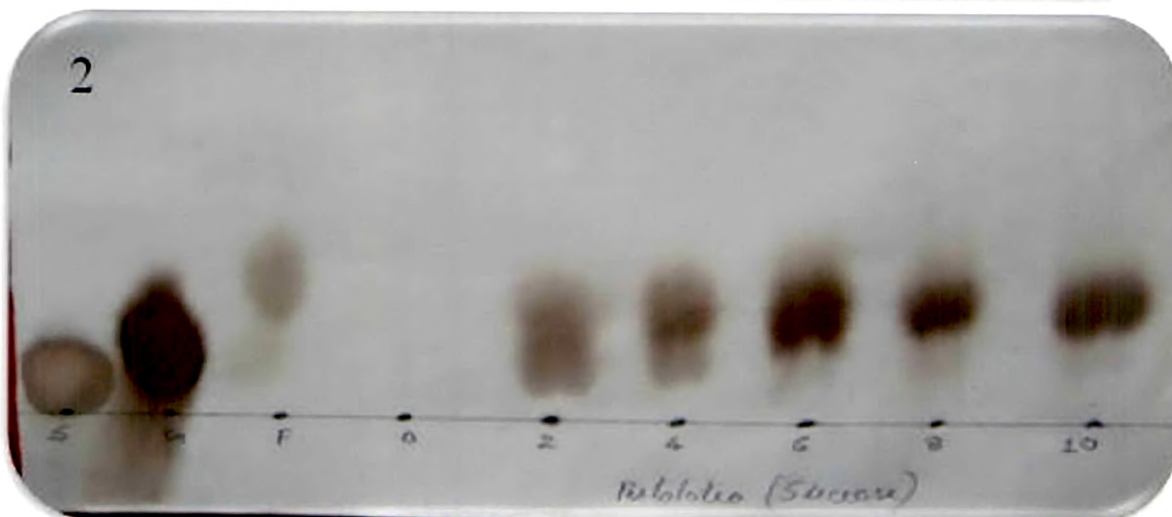
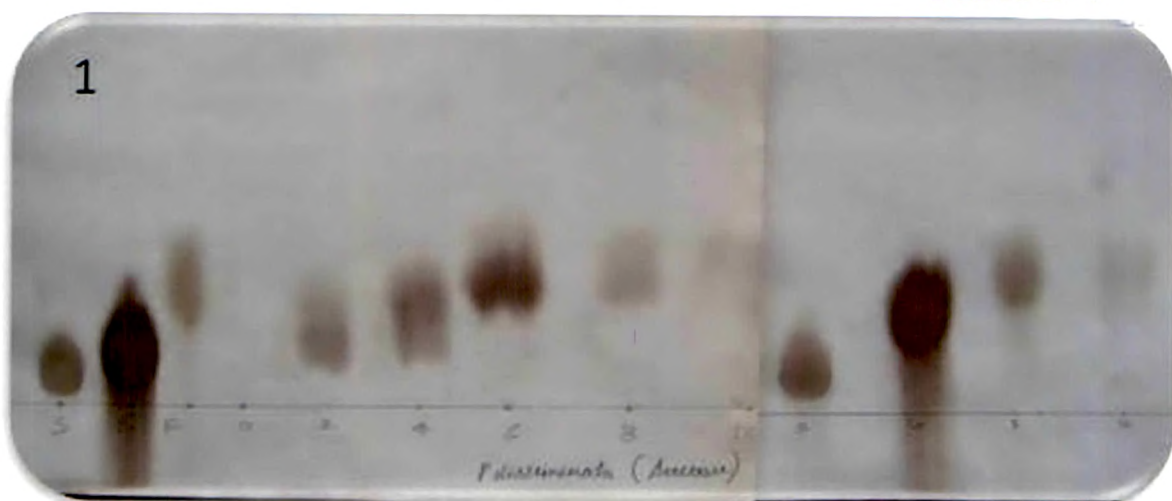


PLATE - VI

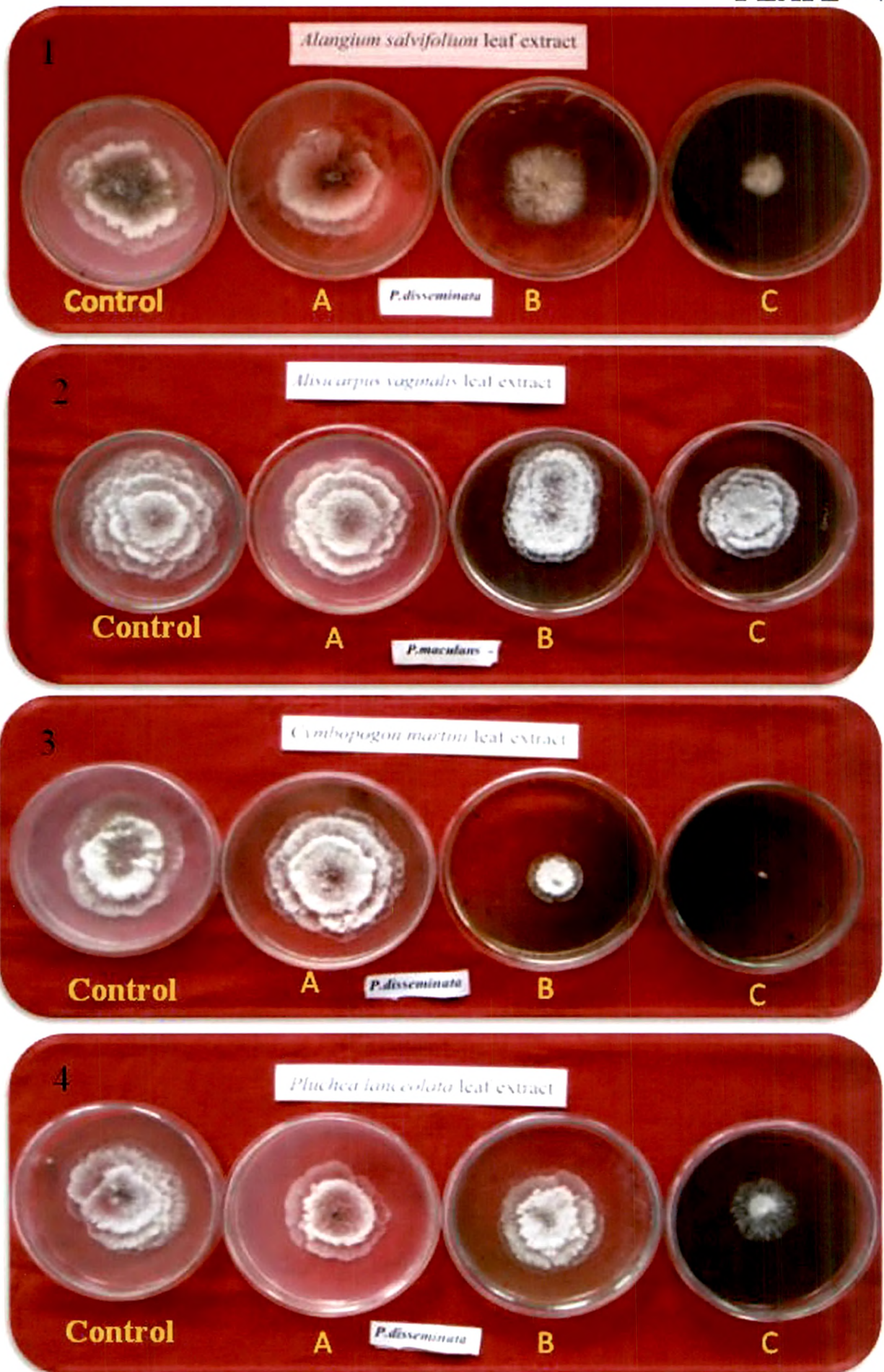


PLATE - VII

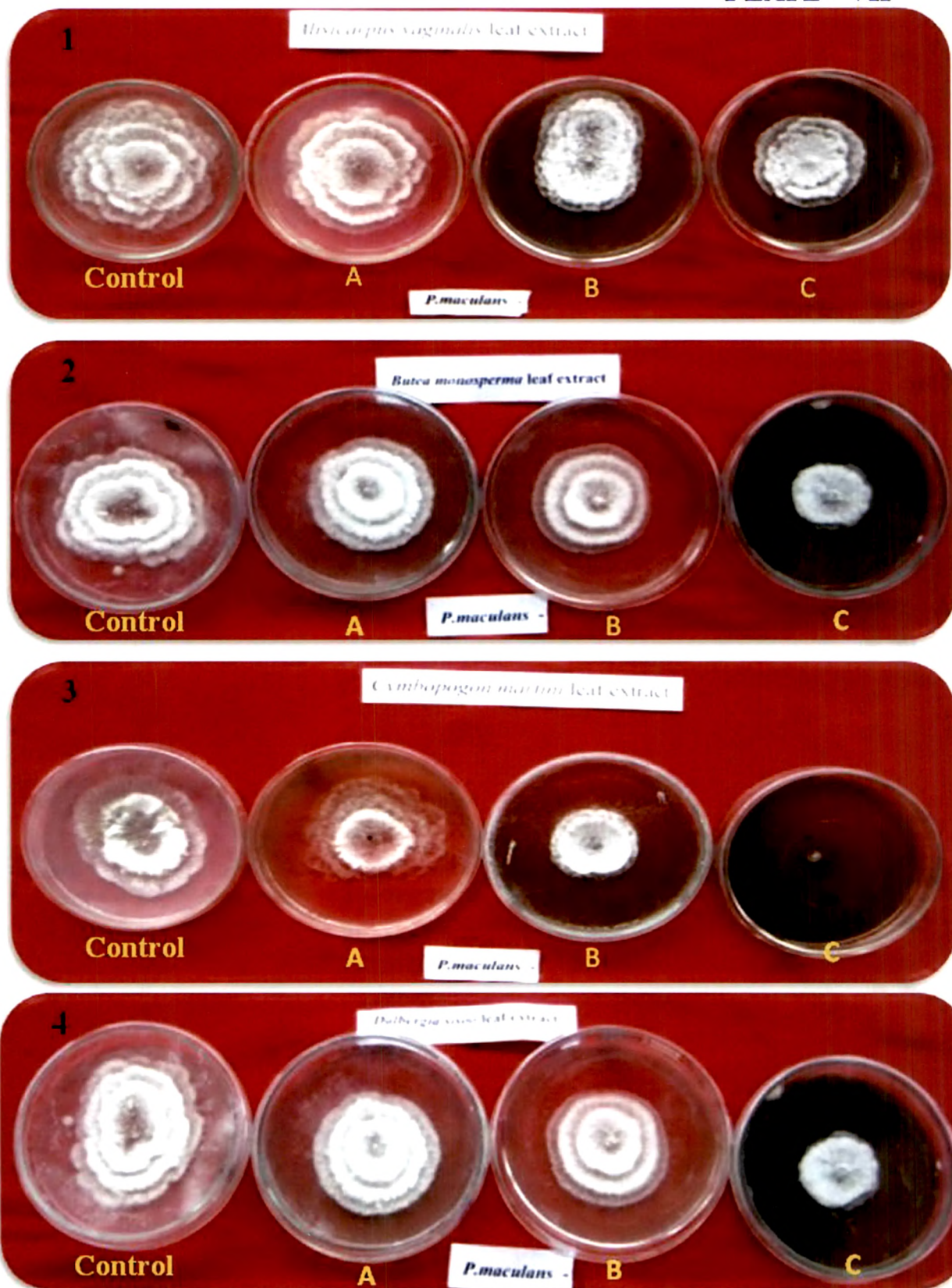


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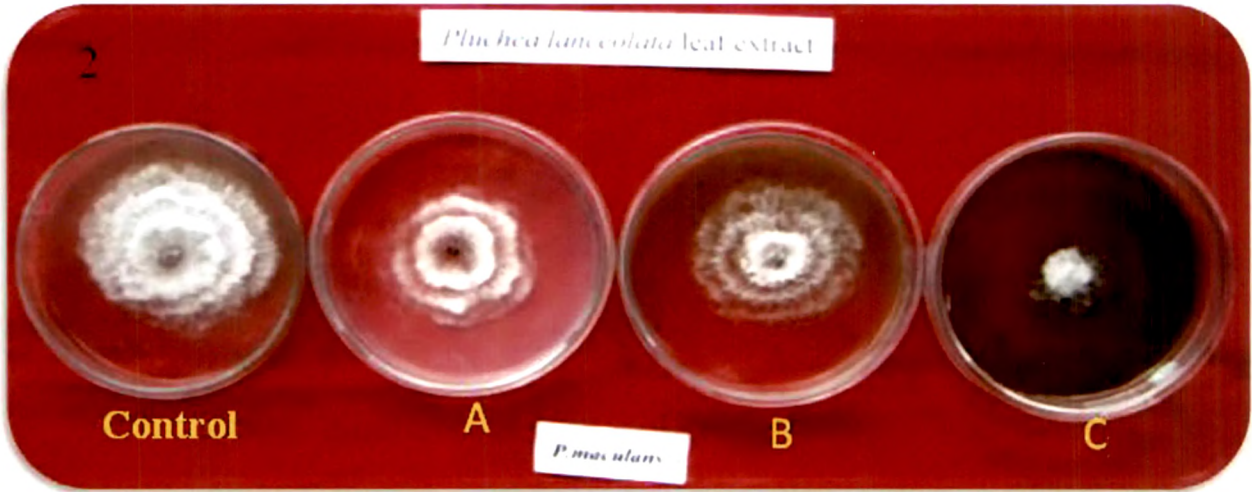
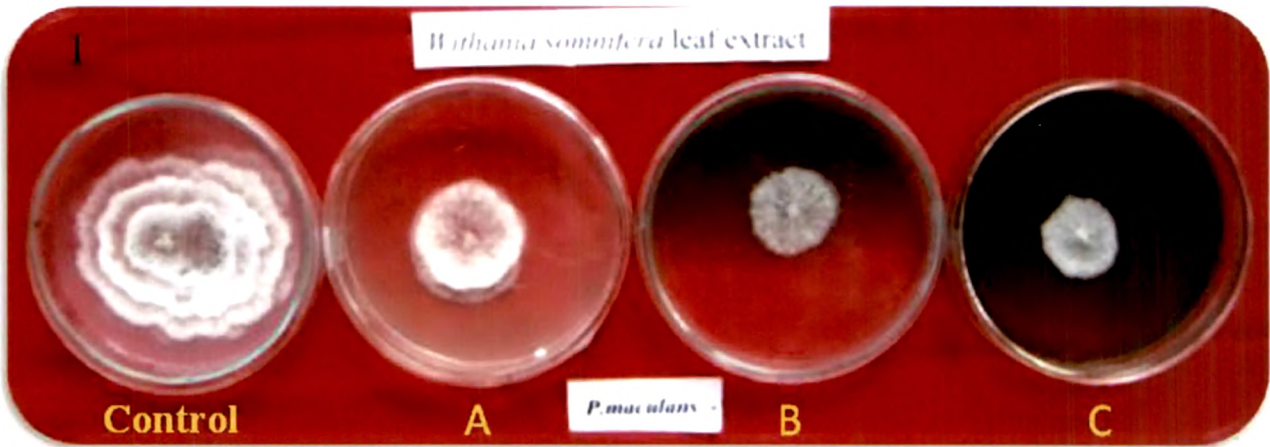


PLATE - X

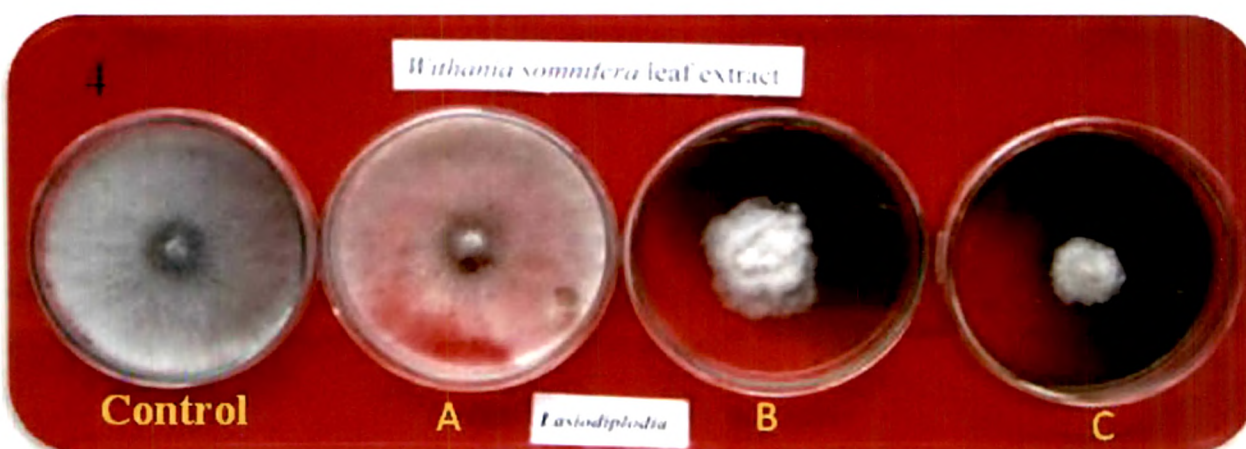
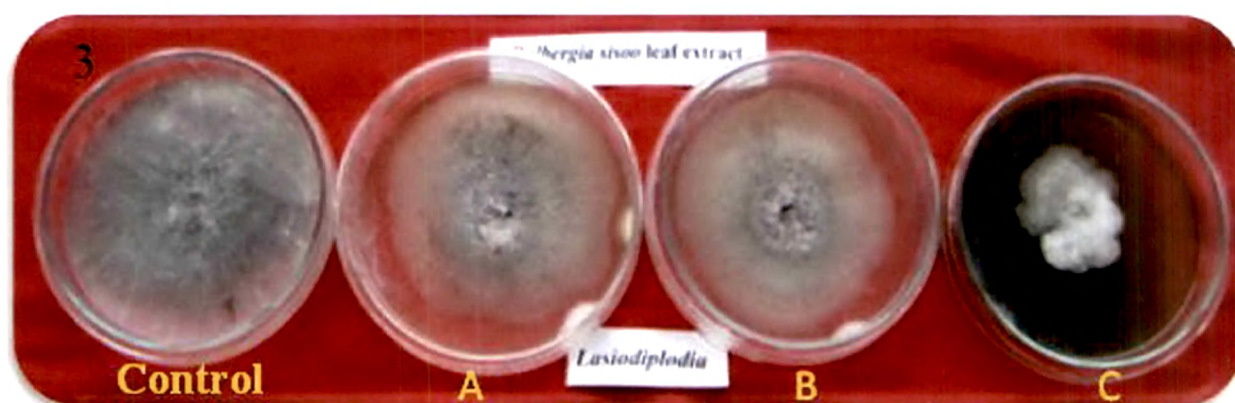
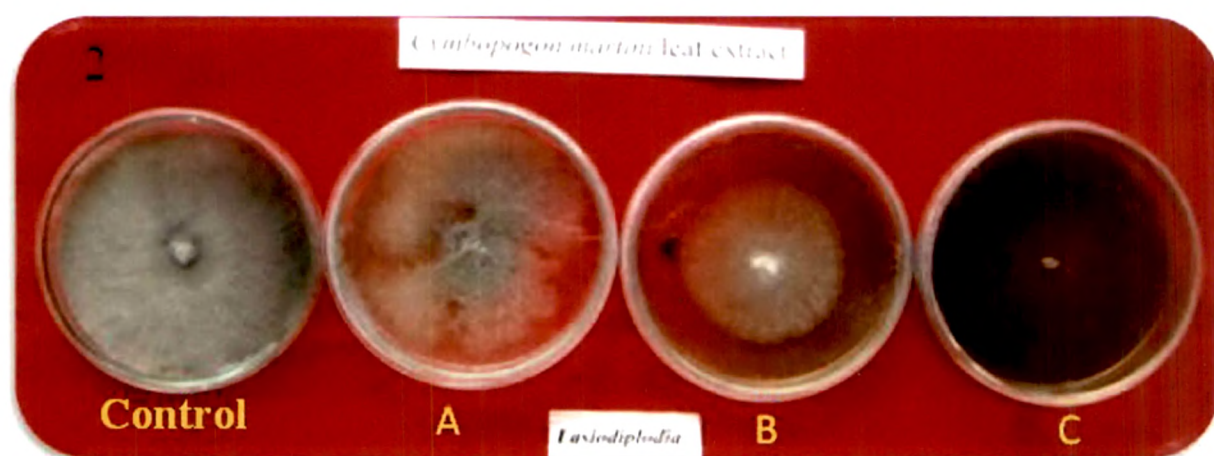
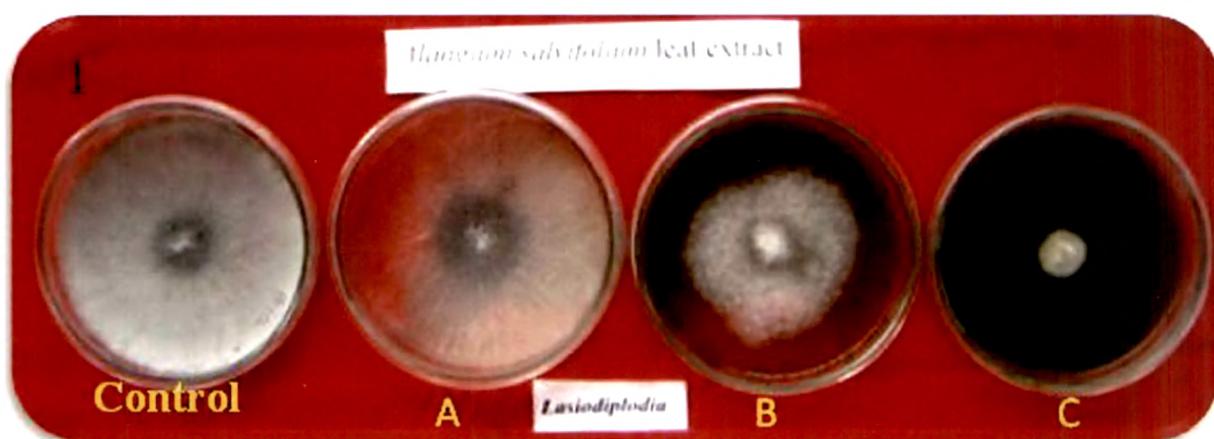


PLATE - IX

