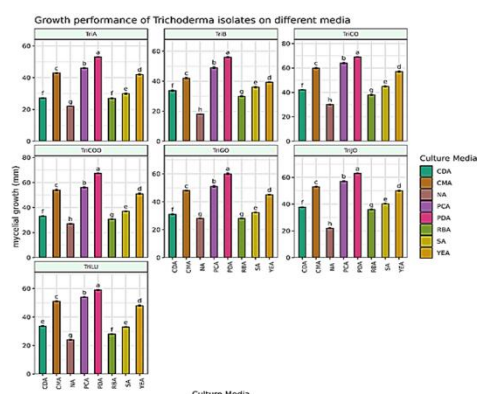


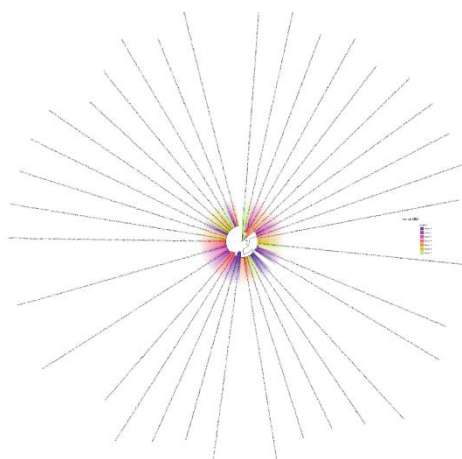
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## Supplementary data



**Supplementary Fig. 1.** Comparative mycelial growth of *Trichoderma* isolates on eight nutrient media after 5 days of incubation at  $28 \pm 1$  °C.

Bar plots depict mean radial growth (mm) of seven *Trichoderma* isolates (TriA–TriLU) across different culture media (CDA, CMA, NA, PCA, PDA, RBA, SA, YEA). Distinct letters above bars represent statistically significant differences ( $p \leq 0.01$ ) according to Critical Difference (CD test). Error bars indicate standard deviation across three replications



**Supplementary Fig. 2.** Circular phylogenetic tree illustrating the evolutionary relationships of *Trichoderma* spp. isolates based on ITS sequence alignment with reference strains retrieved from GenBank. Color-coded clades represent distinct *Trichoderma* species groups, confirming the taxonomic placement of study isolates within the *T. asperellum*, *T. harzianum*, and *T. asperelloides* complexes. Bootstrap support values (>70%) are shown on key branches, indicating clade reliability (Felsenstein, 1985). The tree was constructed using the Maximum Likelihood method and visualized using iTOL.