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Study of different temperature levels on radial growth and dry mycelial weight of *Trichoderma* spp. isolated from red gram based conservation agriculture ecosystem

■ N.M. PRABHAVATHI*[1], Y.S. AMARESH[1], M.K. NAIK[1], S.B. MALLESH[1] **AND** P.H. KUCHANUR[2]

[1]Department of Plant Pathology, University of Agricultural Sciences, RACHIPUR (KARNATAKA) INDIA
[2]Department of Genetics and Plant Breeding, College of Agriculture, Bheemarayanagudi, GULBARGA (KARNATAKA) INDIA

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***Corresponding author:**
Email: prabhavati4644@gmail.com

ABSTRACT

Different temperatures and pH were taken to observe the radial growth and dry mycelial weight of *Trichoderma* spp. The radial growth of *Trichoderma* was maximum for all the four species *i.e., T. harzianum, T. viride, T. hamatum* and *T. virens* (90, 82, 91.3 and 85mm) at 30°C, where it was minimum in four species at 40°C (30.70, 35, 22.53 and 20 mm), respectively and dry mycelium of *T. harzianum* (1.05 mg), *T. viride* (1.83 mg), *T. hamatum* (2.42 mg) and *T. virens* (0.82 mg) were maximum at 25°C whereas, the radial growth of four isolates were maximum at pH 6 (90, 88, 92 and 91mm) in *T. harzianum, T. viride, T. hamatum* and *T. virens*, respectively. At neutral pH, radial growth of *T. harzianum* (89 mm), *T. viride* (91 mm), *T. hamatum* (89 mm) and *T. virens* (87 mm) was minimum and dry mycelium weight of *T. harzianum* (729 mg), *T. viride* (1639.67 mg), *T. hamatum* (798 mg) and *T. virens* (583.67 mg) were maximum at pH 8. It was minimum at pH 4 for *T. harzianum* (120 mg), *T. viride* (257 mg), *T. hamatum* (154 mg) and *T. virens* (262.67 mg).

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