

Evaluation of various media for growth and sporulation of *Ampelomyces quisqualis*

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ABSTRACT

An *in vitro* experiment was conducted to evaluate different liquid and solid culture media for the growth and sporulation of *Ampelomyces quisqualis*. The media tested included Potato Dextrose Broth (PDB), Czapek Dox Broth (CDB), and Oat Meal Broth (OMB), both with and without supplements *viz.*, Arabitol (A), Mannitol (M), and Malt Extract (Ma). Similarly, solid media variants were also prepared by adding agar-agar to the liquid media. Among the liquid media, OMB supported the highest pycnidiospore production, while CDB supplemented with Malt Extract (CDB+Ma) yielded the highest dry biomass. Among solid media tested, Czapek Dox Agar with Malt Extract (CDA+Ma) supported the maximum radial growth, followed by PDA+Ma. Oat Meal Agar (OMA) was found to support the highest sporulation. Overall, malt extract was identified as the most effective supplement in enhancing both radial growth and sporulation of *Ampelomyces quisqualis*.

Keywords: *Ampelomyces quisqualis*, Biomass yield, Radial growth, Sporulation Supplements