EFFECT OF VARIOUS OIL CAKES AQUEOUS EXTRACTS (EACH @ 5% AND 10% @ CONC.) ON GROWTH OF PLEUROTUS SPP.

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Abstract: Effect of various oil cakes aqueous extracts each @ 5% and 10% @ conc. (cotton seed cake, neem seed cake, soyabean seed cake, castor cake, karanj cake, safflower cake, sunflower cake and groundnut cake) on mycelial growth of Pleurotus spp. (P. florida, P. eous, P. sajor-caju) was studied in vitro. The culture media tested, maximum colony diameter of P. florida (90.00 mm) was recorded on Potato dextrose agar (control-without any aqueous extract of oil cakes), this was followed by Cotton cake extract @ 5% (49.66 mm), Karanj cake extract @ 5% (52.66 mm) minimum colony diameter was recorded on sunflower cake extract @ 10% (20.33 mm). Colony diameter of P. eous the maximum colony diameter (90.00 mm) was recorded on Potato dextrose agar (control-without any aqueous extract of oil cakes), this was followed by Cotton cake extract @ 5% (59.66 mm), Karanj cake extract @ 5% (55.66 mm) and the minimum colony diameter was recorded on sunflower cake extract @ 10% (20.33 mm) and this was followed by groundnut cake extract @ 10% (24.66 mm). Colony diameter of P. sajor-caju the maximum colony diameter (90.00 mm) was recorded on Potato dextrose agar (control-without any aqueous extract of oil cakes), this was followed by Cotton cake extract @ 5% (53.00 mm) and the minimum colony diameter was recorded on castor cake extract @ 10% (20.33 mm) and this was followed by sunflower cake extract @ 10% (22.00 mm).

Keyword: In vitro, Pleurotus florid a, Pleurotus eous, Pleurotus sajor-caju, Culture media

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