

E. ... A ... ;

E. ... 1. A ...

E. ... 2,3.

E. ... 4. A ...

... 5-8. ...

... 9-11. ...

... 12. E. ...

... 13. E. ...

() 14.

ED - EC

10 1% 15 15 16.

*Corresponding author:

100% (v/v) C, 5 A, 100 / 2.5 / 50 / B, 7- A, 21 CA, DA, 5- A, A, E, 28 C, 1- A, DA, A, C, A, 2, 3, 17, 20% (v/v), -80 C, P, B, F, M, ED, 4 C, E, A, -15 C, 20%, 7, 28 C, 5-7, 28 C, A, A, 18, A 5-, (DA), C, (CA), A, Streptomyces sp.5 and Streptomyces sp.7, D, (5), DA, AB=B A 19, AB=, A =, B =, A < 1, 1-9 (+); 10-19 (++); >20 (+++), A, 20, A, 7, 5-, DA

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Figure 1: In vitro antagonism of Streptomyces sp. 7 against various phytopathogenic fungi. The figure shows a series of petri dishes (A, B, C, D) containing fungal cultures. Streptomyces sp. 7 is shown as a white, fuzzy growth that inhibits the expansion of the surrounding phytopathogenic fungi, creating a clear zone of inhibition. The fungi include Fusarium (F), Penicillium (P), and Botrytis (B).

Figure 2: In vitro antagonism of Streptomyces sp. 5 against various phytopathogenic fungi. Similar to Figure 1, this figure shows petri dishes (A, B, C, D) where Streptomyces sp. 5 inhibits the growth of phytopathogenic fungi like Fusarium (F), Penicillium (P), and Botrytis (B). The inhibition is evident as the white actinomycete growth restricts the spread of the darker fungal colonies.

In vitro

Streptomyces sp. 7 showed antagonism against various phytopathogenic fungi. The inhibition percentages were: Fusarium (F) 12.3%, Penicillium (P) 30.7%, Botrytis (B) 38.5%, and M. 32.3%. The inhibition was significant (P < 0.05).

Streptomyces sp. 5 showed antagonism against various phytopathogenic fungi. The inhibition percentages were: Fusarium (F) 47%, Penicillium (P) 30%, Botrytis (B) 30%, and M. 47%. The inhibition was significant (P < 0.05).

A Streptomyces sp. 5 Streptomyces sp. 7

Streptomyces sp. 5 showed antagonism against various phytopathogenic fungi. The inhibition percentages were: Fusarium (F) 22.3%, Penicillium (P) 19.6%, Botrytis (B) 16.2%, and M. 36.5%. The inhibition was significant (P < 0.05).

Streptomyces sp. 7 showed antagonism against various phytopathogenic fungi. The inhibition percentages were: Fusarium (F) 18%, Penicillium (P) 19.9%, Botrytis (B) 18.4%, and M. 28.3%. The inhibition was significant (P < 0.05).

