

Synthesis and antifungal activity of N-bromonicotinamide (NBN)

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SUMMARY

N-Bromonicotinamide (nbn) was synthesized and screened for antifungal activity against *Aspergillus restrictus*, *Candida albicans*, *Cladosporium herbarum*, *Fusarium oxysporum*, *Penicillium chrysogenum* and *Rhizoctonia solani*. N-Bromonicotinamide showed total inhibition to all these fungi at 1000 ppm concentration, whereas it showed 75 per cent growth inhibition for *A. restrictus*, *C. herbarum*, *F. oxysporum*, *P. chrysogenum* and *R. solani* and 50 per cent growth inhibition for *C. albicans* at 500 ppm concentration. At lower concentration (250 ppm) of NBN *A. restrictus*, *C. herbarum*, *F. oxysporum* and *R. solani* showed 50 per cent growth inhibition, whereas in *C. albicans* with 75 per cent growth inhibition was observed. For *P. chrysogenuus*, the lower concentration do not show any inhibition. Hence, NBN at 1000 ppm concentration can be utilized as antifungal agent against these fungi.

Key words : Antifungal activity, Antifungal agent, Growth inhibition, N-Bromonicotinamide (NBN)