ABSTRACT

NOVEL BACTERIUM OF BACILLUS GENUS AND USES THEREOF

The present work relates to a novel microbe belonging to *Bacillus* family exhibiting antimicrobial and/or antifungal and plant growth promoting activity. The present work relates to the method of its isolation and identifying extract of the novel microbe exhibiting antimicrobial and/or antifungal, plant growth promoting, proteolytic, amylolytic activities. In particular, there is provided a novel bacterium *Bacillus subtilis* ssp. *shriramensis* having accession number MTCC-5674. The novel bacterium is cultured in the medium to mass produce the antimicrobial and/or antifungal and plant growth promoting agent by the novel microbe and in the culture medium. There is provided a composition comprising the novel bacterium or an extract of the novel bacterium which is agriculturally and pharmaceutically effective. The novel bacterium of the present work is used in the treatment against various pathogenic fungi and/or bacteria and promoting growth plants.

Fig. 1