

## Supplementary material:

**Table 1:** Antibacterial activity profile of M4 performed by agar well method was observed in terms of zone of inhibition (zoi) shown by 100µl of fermented broth.

Bacterial Test Strains	Zoi (mm)
<i>Bacillus subtilis</i> ATCC 6633	38
<i>Bacillus subtilis</i> NCTC 8236	29
<i>Bacillus coagulans</i> MTCC 2302	35
<i>Staphylococcus aureus</i> ATCC 6538	35
<i>Staphylococcus aureus</i> MTCC 96	35
<i>Escherichia coli</i> MTCC 64	30
<i>Escherichia coli</i> MTCC 739	NA*
<i>Escherichia coli</i> ATCC 1303	26
<i>Escherichia coli</i> ATCC 1304	30
<i>Pseudomonas aeruginosa</i> MTCC 424	NA*
<i>Kleibsellla pneumoniae</i> ATCC 13883	NA*
<i>Salmonella typhi</i> S-5731/64	28
<i>Proteus vulgaris</i> ATCC 6380	39
<i>Micrococcus flavus</i> ATCC 10240	28

NA\*: Not Active

**Table 2:** Antifungal activity profile of M4 performed by agar disc method was observed in terms of zone of inhibition (zoi) shown by 100µl of fermented broth.

Fungal Test Strains	Zoi (mm)
<i>Candida albicans</i> ATCC 24433	24
<i>Candida albicans</i> MTCC 1346	28
<i>Candida albicans</i> MTCC 2512	30
<i>Candida. albicans</i> CDRI 1	26
<i>Candida albicans</i> MTCC 183	23
<i>Candida tropicalis</i> MTCC 184	22
<i>Saccharomyces cerevisiae</i> MTCC 307	25
<i>Rhizoctonia oryzae</i> MTCC2162	NA*
<i>Cryptococcus terreus</i> MTCC 1716	23
<i>Beauveria nivea</i> MTCC 557	18
<i>Alternaria alternata</i> MTCC 1362	18
<i>Trichophyton rubrum</i> MTCC 296	28
<i>Fusarium moniliforme</i> MTCC 156	NA*
<i>Penicillium ochrochloron</i> MTCC 517	22

NA\*: Not Active