



SN - De20/22/210303

**CENTRE FOR PLANT MEDICINE RESEARCH.  
MICROBIOLOGY DEPARTMENT**

Product Code	Product Form	Date Received	Date Analysed
De/016/21	Decoction	2 <sup>nd</sup> February, 2021	3 <sup>rd</sup> February, 2021

**A) Microbial Load Analysis**

Test	Result (CFU/ml)	Acceptance Criterion BP (2021)	Compliance
1 TAMC/ 37 °C /24h/PCA	2.0 x 10 <sup>2</sup>	5.0 x 10 <sup>4</sup>	Passed
2 TYMC/ 25 °C /5Days/MEA	4.0 x 10 <sup>2</sup>	5.0 x 10 <sup>2</sup>	Passed
<i>E. coli</i>	Absent	Absent	Passed
<i>Salmonella sp.</i>	Absent	Absent	Passed
<i>Staphylococcus sp.</i>	Absent	Absent	Passed

<sup>1</sup> TAMC = Total Aerobic Microbial Count <sup>2</sup> TYMC = Total Yeast and Molds Counts

**General Comment:** The sample meets the microbial load requirements as per BP specifications

**B) Microbial Efficacy Analysis**

Pathogen	Product Inhibition Zone (mm)	Ciprofloxacin Inhibition Zone (mm)	Fluconazole Inhibition Zone (mm)
<i>S.aureus</i> (ATCC 25923)	6	35	-
<i>E.coli</i> (ATCC 25922)	6	35	-
<i>C.albicans</i> (ATCC 10231)	6	0	27
<i>K.pneumoniae</i> (ATCC 33495)	6	34	-
<i>P.aeruginosa</i> (ATCC 27853)	6	25	-
<i>P.mirabilis</i> (ATCC 49565)	6	30	-
<i>S.saprophyticus</i> (ATCC 15305)	12	34	-
<i>S. typhi</i> (ATCC 19430)	12	35	-
<i>E. feacalis</i> (ATCC 29212)	6	35	-

The efficacy analysis was conducted using agar well diffusion method. (Holder and Boyce, 1994. Burns 20:264-9). The diameter of the cork borer used = 6 mm. (- or N/A) = Not Applicable

**General Comment:** The product showed antimicrobial activity

**General Conclusion:** The product passed the microbial load analysis and showed anti-microbial activity. Therefore, it is not contaminated with germs and efficacious against the pathogens/germs.

Analyzed By

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