



SN - De7/22/210301

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

Product Code	Product Form	Date Received	Date Analysed
De/003/21	Decoction	19 <sup>th</sup> April, 2021	19 <sup>th</sup> January, 2021

**A) Microbial Load Analysis**

Test Conducted	Result (CFU/ml)	Acceptance Criterion BP (2021)	Compliance
1 TAMC/ 37 °C /24hrs/PCA	1.3 x 10 <sup>3</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 spp</i>	Absent	Absent	Passed
<i>Staphylococcus spp</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)	11	35	N/A
<i>E.coli</i> (ATCC 25922)	6	35	N/A
<i>C.albicans</i> (ATCC 10231)	13	0	27
<i>K.pneumoniae</i> (ATCC 33495)	13	0	27
<i>P.aeruginosa</i> (ATCC 27853)	6	25	N/A
<i>P.mirabilis</i> (ATCC 49565)	6	30	N/A
<i>S.saprophyticus</i> (ATCC 15305)	14	34	N/A
<i>S. typhi</i> (ATCC 19430)	6	35	N/A
<i>E. feacalis</i> (ATCC 29212)	6	35	N/A
<i>S.aureus</i> (ATCC 25923)	6	35	N/A

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. 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 safe and might be used for the intended indication.

Analyzed By

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