



SN - Mw1264/22/221107

**CENTRE FOR PLANT MEDICINE RESEARCH**  
PHARMACOLOGY & TOXICOLOGY DEPARTMENT

Product Code	Product Form	Date Received	Date Analysed	Test Conducted
Mw/003/22	Mouth Wash	4 <sup>th</sup> January, 2023	21 <sup>st</sup> February, 2023	Acute & Dermal Toxicity Test

### 1. ACUTE TOXICITY TEST

#### RESULTS:

Table Showing Results of Acute Toxicity Test on Mouth Wash (Mw/003/22) in Sprague Dawley Rats.

Animal Model	Sprague Dawley Rats
No. of Animals	12
Sex	Female
No. of Groups	2(n=6)
Route of Administration	Oral
Formulation	Mouth Wash
Preparation	Freeze-dried sample of Mw/003/22
Dose Administered	5000 mg/kg
Period of Observation	14 Days
No. of Deaths Recorded	Nil
Estimated Median Lethal Dose (LD <sub>50</sub> )	Greater than 5000 mg/kg
Physical Signs of Toxicity	Nil

#### REMARKS:

The LD<sub>50</sub> is estimated to be greater than 5000 mg/kg which is greater or equal to level 5 on the Hodge and Sterner Scale<sup>1</sup> and also 26638 times more than the recommended dose (three drops daily, equivalent to 0.1877 mg/kg), as indicated by the manufacturer. Thus, the product, Mw/003/22, may not be toxic and is within the accepted margin of safety (Hodge and Sterner Scale) at the recommended dose.

## 2. DERMAL TOXICITY TEST

### PROCEDURE:

An area of the hair on the lateral portion of the Sprague Dawley (SD) rats (about 9cm<sup>2</sup>) was trimmed and shaved with razor blade. Group one was injected intradermally with 0.1 ml of 1% lyophilized decoction in glycerol solution and group two with 0.1 ml of 5% w/v of the lyophilised decoction in glycerol. Group three served as control and was injected intradermally with only 0.1 ml glycerol. The Decoction was applied topically (0.1 - 1.0 g) to the shaved area of the first 2 groups while glycerol was applied to the control group. The animals were observed for a period of 48 hours for any signs of ulceration, irritation and/or inflammation as compared to the control groups.

### RESULTS:

The experimental SD Rat in group 1 and 2 administered with 1% and 5% w/v of the Mouth Wash intradermally and topically (0.5-1 g), showed no ulceration, irritation and/or inflammations at the site of injection and shaved area, respectively.

### REMARKS:

Mw/003/22 appears to be safe when applied to the skin.

Analysed by



Mr. Pharm System  
Admin  
Research Officer

Approved by



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