



SN - Sps80/22/210306

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

Product Code	Product Form	Date Received	Date Analysed	Test Conducted
Sps/002/21	Soap (Solid)	16 <sup>th</sup> April, 2021	17 <sup>th</sup> May, 2021	Dermal Toxicity Test

Twenty-five grams (25 g) of the soap was softened in 0.5 ml water and used to prepare a 1 % and 5 % w/v solution of the soap in glycerol. Fifteen Sprague Dawley rats were grouped into 3 (n=5). An area of hair on the lateral portion of the rats (about 9 cm<sup>2</sup>) was trimmed and shaved with a razor blade. Group one was injected intradermally with 0.1 ml of the 1 % softened soap in glycerol solution and group two with 0.1 ml of 5 % w/v of the softened soap in glycerol. Group three served as the control and was injected intradermally with only 0.1 ml glycerol. The softened soap was also applied topically (0.5-1.0 g) to the shaved area of the first two 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:**

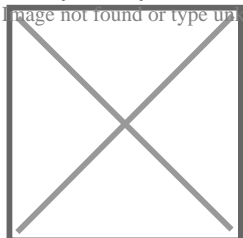
Experimental SD Rat in groups 1 and 2 that received 0.1 ml of the Soap (Solid) dissolved in glycerol at 1 % and 5 % w/v respectively, showed no ulceration, irritation and/or inflammation at the site of injection. This indicates that even at a high level of 5 % w/v the Soap (Solid) did not appear to cause erythema to the skin of the animal. A similar observation was made for the topical application.

**REMARKS:**

Sps/002/21 appears to be safe when applied to the skin.

Analysed by

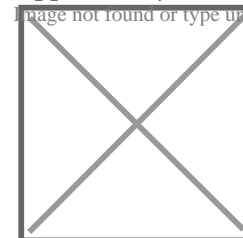
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