



UNIVERSITY OF LIMPOPO GREEN BIOTECHNOLOGIES RESEARCH CENTRE

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C/O R71 Tzaneen Road
Mankweng Township
Polokwane

REPORT OF ANALYSIS

Product: High Sun Protection Lotion

DETAILS OF MANUFACTURER

Perile Cosmetics Pty Ltd
Perile.cosmetics@outlook.com
35 Greenfield, Mooikloof Ridge, Pretoria, 0081
Tel: 012 841 4309
Phiwokuhle Ngcayiya

Batch No./Bar Code number

Sample receipt date: October 2021

Product shelf life: 24 Months

IDENTITY

Skin Care Product

USES: Protects the skin from harsh sun rays and
keeps skin moisturized

Botanical composition

ORGANOLEPTIC

Appearance
Colour
Odour
Condition of sample

SPECIFICATION

Paste
Light yellow
Scented

RESULTS

Complies
Complies
Complies
Acceptable

<u>ANALYTICAL</u>		<u>RESULTS</u>	
Thermocycles	pH (7.25)	Stable	4- 42 °C
	Colour	Stable	4- 42 °C
	Aroma/odour	Stable	4- 42 °C
Light exposure		Stable	Midday light intensity of 800 $\mu\text{mol m}^{-2} \text{s}^{-1}$
Shelf life		24 months	Temps 30/15 °C (16h day/8h night)
pH		Balanced	7.25
Bioactivity			
Antioxidant activity		Low (AAO = <0.001%)	
Anti-inflammatory activity		Not tested	
Antibacterial activity		Low (MIC <i>E. coli</i> = >12.5 mg/ml)	
Antifungal activity		Low (MIC <i>Candida</i> = >12.5 mg/ml)	
Anti-tyrosinase activity assay	(Skin lightening)	Low (IC ₅₀ = 1120 mg/ml)	

Phytochemical composition		
Total phenolics (TP)		Low (<0.1%)
Flavanoids (TF)		Not detected
Alkaloids		Not detected
Teroids or triterpenoids		Not detected
MICROBIAL SPECIFICATIONS		RESULTS
Total plate count		<10 CFU/100ml Complies
<i>E. coli</i>		0 CFU/100ml Complies
<i>Salmonella sp</i>		0 CFU/100ml Complies

NB. Product was not tested on animals

OTHER INGREDIENTS

ALLEGENS & ANIMAL INGREDIENTS

None

No pollen

Does not contain any viable plant materials such as seeds

Does not contain any animal derived ingredients

HUMAN HEALTH SAFETY ASSESSMENT

Genotoxicity: Not genotoxic

Repeated Dose Toxicity: Not cytotoxic

Developmental and Reproductive Toxicity: Not toxic

Skin Sensitization: Not tested

Phototoxicity/Photoallergenicity: Not phototoxic/photoallergenic (UV Spectra)

Local Respiratory Toxicity: No NOAEC available. Exposure is below the TTC.

STORAGE AND STABILITY

Keep in a cool dry place

NB: The information contained in this specification is to our knowledge true and correct and presented in good faith. The information is offered solely for your consideration and verification.

This report has been generated based on the analysis results of tests done at the Green Biotechnologies Research Centre, University of Limpopo and is for the samples tested. The report or part of it shall not be reproduced except with written consent from the signatory below. Tests were done on behalf of the The South African Bureau of Standards.



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END OF REPORT