

Bald Man Balm

Formulation Reference: 5516

An unusual gel textured emulsion, which has a mattifying effect when applied to the scalp.



INSIDE THE FORMULATION

LAPONITE XL-21

Laponite(R) is synthetic bentonite clay which can be used in a variety of applications as a rheology modifier. It is an excellent co-thickener and gives stability to other thickeners without negatively affecting their rheological properties. Synthetic bentonite clay is manufactured with a uniform particle size to give functionality and performance above that of natural bentonite clays.

HYDROVANCE

A moisturising agent delivers moisturisation efficacy comparable to the leading benchmark while offering nontacky, non-greasy aesthetics in skin care products. Hydrovance can provide cost effective moisturisation compared to high end moisturizing agents and, in typical glycerin -based formulations, by reducing the concentration of aesthetic enhancing agents, such as silicones, which are routinely used. Synergistic moisturisation enhancement has been observed when used together with glycerin and other moisturizing agents.

IRICALMIN

Iricalmin is a biopolymer complex made from plants and created by biotechnology for use in skin care products to combat the aggressions of modern life. The synergistic mixture of these substances act as a multi-functional anti-irritant. Besides its anti-irritant action, Iricalmin is also able to regenerate the protective lipid layer of skin damaged by activities such as sunbathing, sport, beach life, shaving, showering, etc. Additionally Iricalmin has moisturising properties.

NEUSILIN UFL-2

Has excellent sebum absorption capabilities and deodorising activity.

WHAT WE FOUND ALONG THE WAY

The combination of Laponite XL21 with Keltrol CG SFT results in a firm gel with excellent pay-off which is very suited to this type of formulation.

Products

Raw Material	Composition	% w/w	Supplier
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Phase A			
Deionised Water	Aqua	79.00	
Phase B			
KELTROL(R) CG SFT	Xanthan Gum	0.50	C P Kelco / S BLACK / Azelis
LAPONITE(R) XL21	Sodium Magnesium Fluorosilicate	3.00	Rockwood Additives Ltd / S BLACK / Azelis
Phase C			
HYDROVANCE(TM)	Hydroxyethyl Urea	7.50	Akzo Nobel / S BLACK / Azelis
IRICALMIN (316-02)	Aqua, Triticum Vulgare, Saccharomyces Cerevisiae, Sodium Hyaluronate, Disodium Cocoamphodiacetate, Phenoxyethanol, Methylparaben, Ethylparaben, Butylparaben, Propylparaben, Isobutylparaben	5.00	DSM Pentapharm / S BLACK / Azelis
NEUSILIN UFL2	Magnesium Aluminium Silicate	1.00	Fuji Chemical Industry Co Ltd / S BLACK / Azelis
Phase D			
BLANOVA(R) PEA	Please contact S. Black for composition details.	0.55	S BLACK / Azelis
LEXGARD O	Caprylyl Glycol	0.45	Inolex / S BLACK / Azelis
Phase E			
DC RM 2051 THICKENING AGENT	Aqua, Sodium Polyacrylate, Dimethicone, Cyclopentasiloxane, Trideceth-6, PEG/PPG-18/18 Dimethicone	3.00	Dow Corning / S BLACK / Azelis

Mixing Instructions

Premix phase B.

Add phase B to phase A mixing until fully hydrated.

Add phase C to phase A in order, mixing until homogenous between each addition.

Premix phase D and add to the batch mixing until homogenous.

Add phase E mixing until homogenous.

Formulation developed by S Black.

Specification

Name	Start Range	End Range	Condition
Stability			3 Months @ 4, 20, 37, 45, 54°C & Cycle
pH	6	7	
Viscosity	400000	550000	Brookfield DV-E, TF, 6rpm @ 25°C

Suppliers correct for Great Britain

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