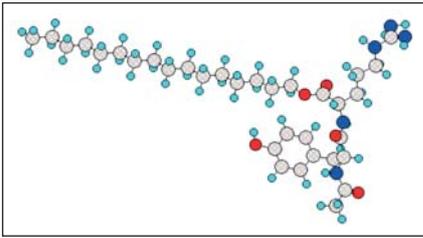


Patent N° WO 98/07744

CALMOSENSINE™



Lipo-dipeptide Tyr-Arg

Function:

Modulates the perception of unpleasant sensations.

Definition:

Lipopeptide with the sequence N-Acetyl-Tyrosyl-Arginyl-Hexadecyl Ester solubilized in a hydroglycolic excipient.

Properties:

An active peptide that enhances skin comfort.

Characteristics:

Calmosensine™ contains the first cosmetic active that acts as a messenger for the senses. It helps put the skin at ease, creating a more comfortable and relaxed sensation.

INCI name:

Butylene Glycol – Aqua (Water) – Laureth-3 – Hydroxyethylcellulose – Acetyl Dipeptide-1 Cetyl Ester

Applications:

Sensitive skin care products, body and face, hand creams, after sun products, shaving products...

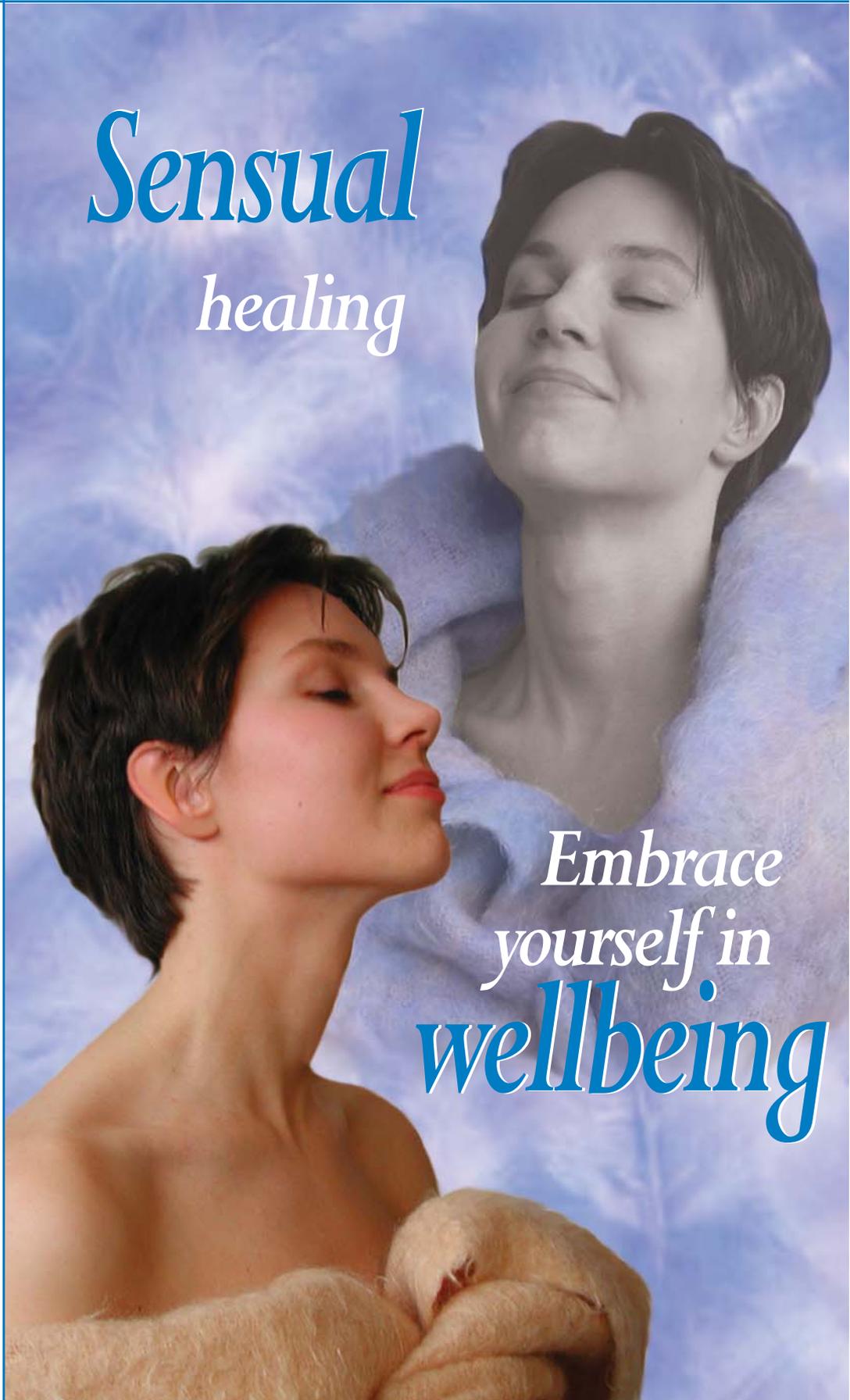
Formulation:

Water soluble
Incorporation at room temperature.

Recommended use level:

3%

Sensual healing



Embrace
yourself in
wellbeing



Member of Croda International Plc

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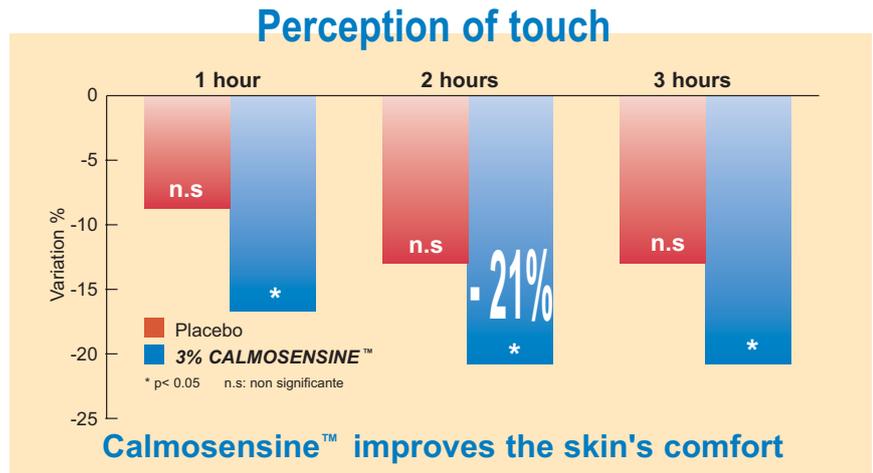
Tactile sensitivity

18 volunteers able to distinguish different degrees of roughness (sandpaper), in a double blind study.

Application of a cream containing 3% Calmosensine™ or a placebo to one hand.

Tactile aggression with sand paper on the treated hand, measurement of Electro Dermal Response (EDR/ Spincontrol) with a Lie Detector on the opposite hand, at T0, T=1h, T=2h and T=3h.

The Lie Detector was used to measure the subliminal response to the unpleasant sensation.

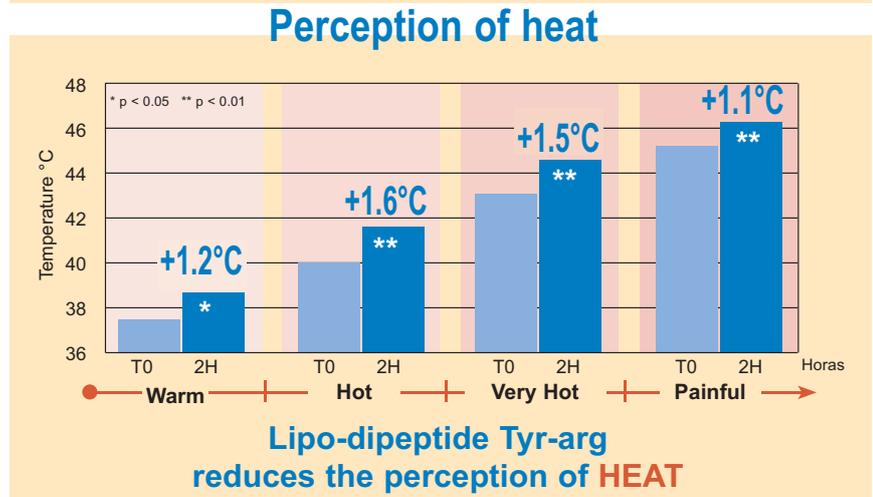


Thermal sensitivity

21 volunteers able to discriminate between 4 distinct levels of heat: warm, hot, very hot, painful.

Application of a cream containing 300ppm of lipo-dipeptide Tyr-Arg, equivalent to 3% Calmosensine™.

Measurement of cutaneous heat sensitivity at T0 and T=2H (Sensitherm method/DermScan).



The neuro-cosmetic activity of Calmosensine™ modulates the cutaneous perception, a novel approach to lessen unpleasant sensations and enhance the well-being potential of your skin.

Formulation

Wellbeing Body Lotion with CALMOSENSINE™

Indicative formula ref. : SED0112278A

Part A	%
Deionized water	qs 100
Ultrez 10 (Carbomer)	0.30
Part B	%
Crodasinic LS30 (Sodium Lauroyl Sarcosinate, Croda)	1.00
Crodacol CS90 (Cetearyl Alcohol, Croda)	1.00
Crillet 3 (Polysorbate 60, Croda)	3.00
Crill 3 (Sorbitan Stearate, Croda)	1.20
Aceite mineral	10.00
Part C	%
Butylen Glycol	4.00
Preservatives	qs
Part D	%
Potassium sorbate	0.10

Part E	%
Deionized water	3.00
Sodium hydroxide 30%	0.30
Part F	%
CALMOSENSINE™ (Sederma)	3.00
Part G	%
Fragrance	0.10

Protocol

Heat Part A in water-bath to 75°C. Heat Part B in water-bath to 75°C. Heat Part C to dissolve the preservatives. Add Part C to Part A with stirring. Add Part B to Part (A+C) with stirring. Add Part D at about 50°C, then add Part E. At 35°C add Part F, then Part G, stirring until thoroughly mixed.

Non-warranty: This formulation has been subjected to limited stability tests and has been shown to perform well. However formulators adopting this approach should ensure to their own satisfaction long term stability and functionality. It is good practice to conduct safety tests on all final formulations prior to marketing. Suggested uses should not be taken as an inducement to infringe any existing patents.

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