

MEADOWESTOLIDE®

Active ingredient

INCI NAME:

Meadowfoam Estolide

APPLICATION:

- Face and Body Care
- Sun Care
- Hair Care
- Masks
- Foundations
- Concealers
- Lipstick
- Antiperspirant

USE LEVEL:

0.1% - 10%

SUSTAINABILITY CREDENTIALS:

- COSMOS approved
- Cold processable
- Vegan

Unique chemistry,
sustainable solutions**MEADOWESTOLIDE®**

A plant-based derived bioactive analogue of ceramide that offers formulation versatility

Naturally-derived from the sustainable Meadowfoam Seed Oil, MEADOWESTOLIDE® is a unique, structurally sophisticated and functional active ingredient which provides multiple benefits to consumers.

MEADOWESTOLIDE® is 100% vegan, COSMOS conform and globally approved. Its structure is very similar to ceramide 3B, which is an essential building block in the epidermis to form its water retention barrier. Due to the internal ester linkage, it comes in a liquid form, which makes it easier to formulate than ceramide 3B.

In skincare systems, MEADOWESTOLIDE® helps to adjust the hydration level of the interstitial spaces and provides significant moisturisation benefits. Initial investigations suggest that the MEADOWESTOLIDE® will prove to be a very important agent in

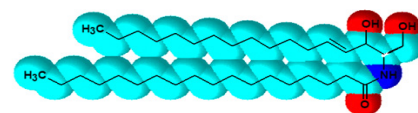
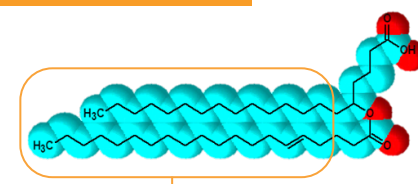
protecting skin from the damaging effects of the environment.

In hair, the MEADOWESTOLIDE® provides protection from thermal damage, while restoring elasticity and reducing the coefficient of friction of the hair cuticle surface to prevent mechanical damage.

In Colour Cosmetics, MEADOWESTOLIDE® provides hydration and barrier protection for multi-purpose products.

Features and Benefits

- Naturally-derived from sustainable Meadowfoam Seed Oil
- Similar structure to ceramide 3B, an essential building block of the epidermis
- Cold processable, which provides formulation versatility compared to ceramide 3B
- Provides skin moisturisation and protection benefits
- Contributes to an elegant after-feel

Structure comparison**Ceramide 3B****MEADOWESTOLIDE®**

Non-polar, long-chain lipid moiety



*MEADOWESTOLIDE® is a raw material approved by Ecocert Greenlife in accordance with the COSMOS Standard

MEADOWESTOLIDE®

Active ingredient

For more details
please contact:

North America

Elementis
469 Old Trenton Road
East Windsor
NJ 08512, USA
T+1 609 443 2500

Europe

Elementis PLC
The Bindery 5th floor
51 - 53 Hatton Garden
London, EC1N 8HN
UK

T +44 208 148 5966

Asia

Deuchem (Shanghai)
Chemical Co., Ltd.
99, Lianyang Road
Songjiang Industrial Zone
Shanghai, China 201613
T +86 21 5774 0348

elementis.com

NOTE:

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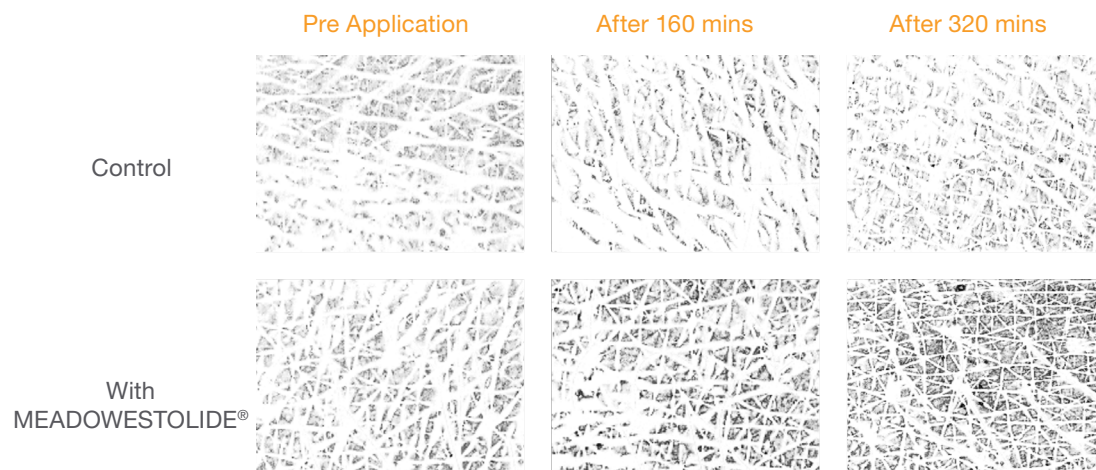
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Graphic 1. In-Vivo Skin Hydration Study - control hand cream vs hand cream with 2% MEADOWESTOLIDE®



The MoistureMap MM100 (Courage + Khazaka electronic GmbH) was used in an in-vivo experiment to determine the distribution of moisture in the skin. The sensor gives graphical and quantitative information of the near surface hydration distribution and the micro-topography of skin. Darker areas indicate more moisture, light areas indicate dryness. From the above graphic, the skin with MEADOWESTOLIDE® shows darker images, meaning the skin is more hydrated.

Formulation



Anywhere Multipurpose Wax

Whether as a hair styling wax, an hydrating lip balm or body balm, this multifunctional wax is suitable to be used anywhere you need and offers a smooth, light sensorial with hydrating function.

MEADOWESTOLIDE® is a ceramide 3B analog with an outstanding water binding capability. On skin, this versatile bioactive restores the hydrophilic barrier while on the hair it improves combability.



Tropical Dream Night Cream

Dream away with this nourishing yet light night cream while sleeping and let the exotic smell take you on a trip to paradise!

MEADOWESTOLIDE® hydrates the skin and supports its natural regenerative processes. BENTONE GEL® LC V gives stability and body to the formula while providing a light skin feel and smooth application.

Phase A	
Helianthus Annuus (Sunflower) Seed Oil ¹	87.50
FANCOR MEADOWFOAM SEED OIL (Limnanthes Alba (Meadowfoam) Seed Oil) ²	2.00
MEADOWESTOLIDE® (Meadowfoam Estolide) ²	0.50
THIXCIN® R PC (Trihydroxystearin) ²	7.50

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Phase A	
BENTONE GEL® LC V (C9-12 Alkane, Distearidmonium Hectorite, Triethyl Citrate) ¹	10.00
Cetiol Sensoft (Propyheptyl Caprylate) ²	5.00
Isolan 17 MB (Polyglyceryl-4 Diisostearate/ Polyhydroxystearate/ Sebacate, Caprylic/Capric Triglyceride, Polyglyceryl-3 Oleate, Diisostearoyl Polyglyceryl-3 Dimer Dilinoleate) ³	3.00
MEADOWESTOLIDE® (Meadowfoam Estolide) ¹	1.00
Fragrance Mango	0.20
PHASE B	
Deionized Water	76.00
Glycerin	2.00
Geogard 221 (Dehydroacetic Acid, Benzyl Alcohol) ⁴	1.00
Glycerin, Carica Papaya (Papaya) Leaf Extract ⁵	1.00
Sodium Chloride	0.50
Sun Croma FD&C Yellow No.6 1% Sol. in Water (CI 15985) ⁶	0.20
Sun Croma FD&C Red No.40 1% Sol. in Water (CI 16035) ⁶	0.10

1 Elementis 2 BASF 3 Evonik 4 Lonza 5 Bio Botanica
6 Sun Chemical