The New Generation of Skin Renovation

SLM
Skin Lipid Matrix®

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For many years, conventional O/W and W/O emulsions have been the heart of skin care products. However, the classic emulsifiers needed in these products to maintain their stability can also interact with the lipid layers of the stratum corneum. This may cause wash out effects and skin irritations.

Emulsifier-free

The Skin Lipid Matrix (SLM) is a big step forward to minimize these disadvantages. This new kind of base formulations is based on lamellar structure forming ingredients and does not contain any classic emulsifier. The SLM is composed of skin identical lipids that can regenerate and reconstruct the skin barrier.

The excellent skin cell renovator

The stratum corneum, the horny layer of the epidermis, is composed of two parts, the corneocytes and the lipid matrix which fills the space between them. A disruption of the lipid layer, or the simple lack of skin lipids, can create moisture deficiency and dry skin. The SLM acts as an excellent skin renovator by providing new skin lipids.
### Base Formulations with Hydrogenated Phosphatidylcholine

**Skin Lipid Matrix (SLM):**
Viscous Matrix consisting of Lamellar Structures

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**SLM 2005**
SLM with Hydrogenated Phosphatidylcholine and Ethanol
INCI: Water/Aqua, Caprylic/Capric Triglyceride, Alcohol, Hydrogenated Phosphatidylcholine, Glycerin

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**SLM 2015**
SLM with Hydrogenated Phosphatidylcholine and Butylene Glycol
INCI: Water/Aqua, Caprylic/Capric Triglyceride, Butylene Glycol, Hydrogenated Phosphatidylcholine

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**SLM 2026**
SLM with Hydrogenated Phosphatidylcholine and Pentylene Glycol
INCI: Water/Aqua, Caprylic/Capric Triglyceride, Hydrogenated Phosphatidylcholine, Pentylene Glycol, Glycerin, Butyrospermum Parkii (Shea) Butter, Squalane, Ceramide NP

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**SLM 2028**
SLM with Hydrogenated Phosphatidylcholine and Ethanol
INCI: Water/Aqua, Alcohol, Caprylic/Capric Triglyceride, Hydrogenated Phosphatidylcholine, Butyrospermum Parkii (Shea) Butter, Squalane, Ceramide NP

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**SLM 2038**
SLM with Hydrogenated Non-GMO Phosphatidylcholine and natural Pentylene Glycol
INCI: Water/Aqua, Caprylic/Capric Triglyceride, Hydrogenated Phosphatidylcholine, Pentylene Glycol, Glycerin, Butyrospermum Parkii (Shea) Butter, Squalane
Frame Formulation

Skin Lipid Matrix “Green Shield” Cream
Based on SLM Skin Lipid Matrix® technology and Hydro-Gain™

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>INCI</th>
<th>% W/W</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong> SLM 2038</td>
<td>Aqua (Water), Caprylic/Capric Triglyceride, Hydrogenated Phosphatidylcholine, Pentylene Glycol, Glycerin, Butyrospermum Parkii (Shea) Butter, Squalane</td>
<td>25.00</td>
</tr>
<tr>
<td><strong>B</strong> LIPOID P 75-3</td>
<td>Hydrogenated Lecithin</td>
<td>1.00</td>
</tr>
<tr>
<td>Keltrol CG-SFT</td>
<td>Xanthan Gum</td>
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</tr>
<tr>
<td>Pentiol natural</td>
<td>Pentylene Glycol</td>
<td>15.00</td>
</tr>
<tr>
<td>Water</td>
<td>Aqua (Water)</td>
<td>ad 100</td>
</tr>
<tr>
<td><strong>C</strong> Myritol 318</td>
<td>Caprylic/Capric Triglyceride</td>
<td>15.00</td>
</tr>
<tr>
<td><strong>D</strong> COVI-OX T90 EU C</td>
<td>Tocopherol</td>
<td>0.10</td>
</tr>
<tr>
<td>Hydro-Gain™</td>
<td>Glycerin, Aqua (Water), Canola Oil, Hydrogenated Lecithin, Opuntia Ficus-Indica Seed Oil, Betula Alba Bark Extract, Citric Acid</td>
<td>5.00</td>
</tr>
<tr>
<td>Citric Acid</td>
<td>Citric Acid</td>
<td>q.s</td>
</tr>
<tr>
<td>Perfume</td>
<td>Parfum (Fragrance)</td>
<td>q.s</td>
</tr>
</tbody>
</table>

**Manufacturing Process**

1) Heat phase B and phase C separately to 60° C
2) Add phase C to phase B and homogenize
3) Heat phase A at 40° C
4) Add to the mixture B + C and homogenize
5) Cool down the emulsion while stirring to around 40° C, add ingredients of phase D, adjust pH at around 6, homogenize shortly again