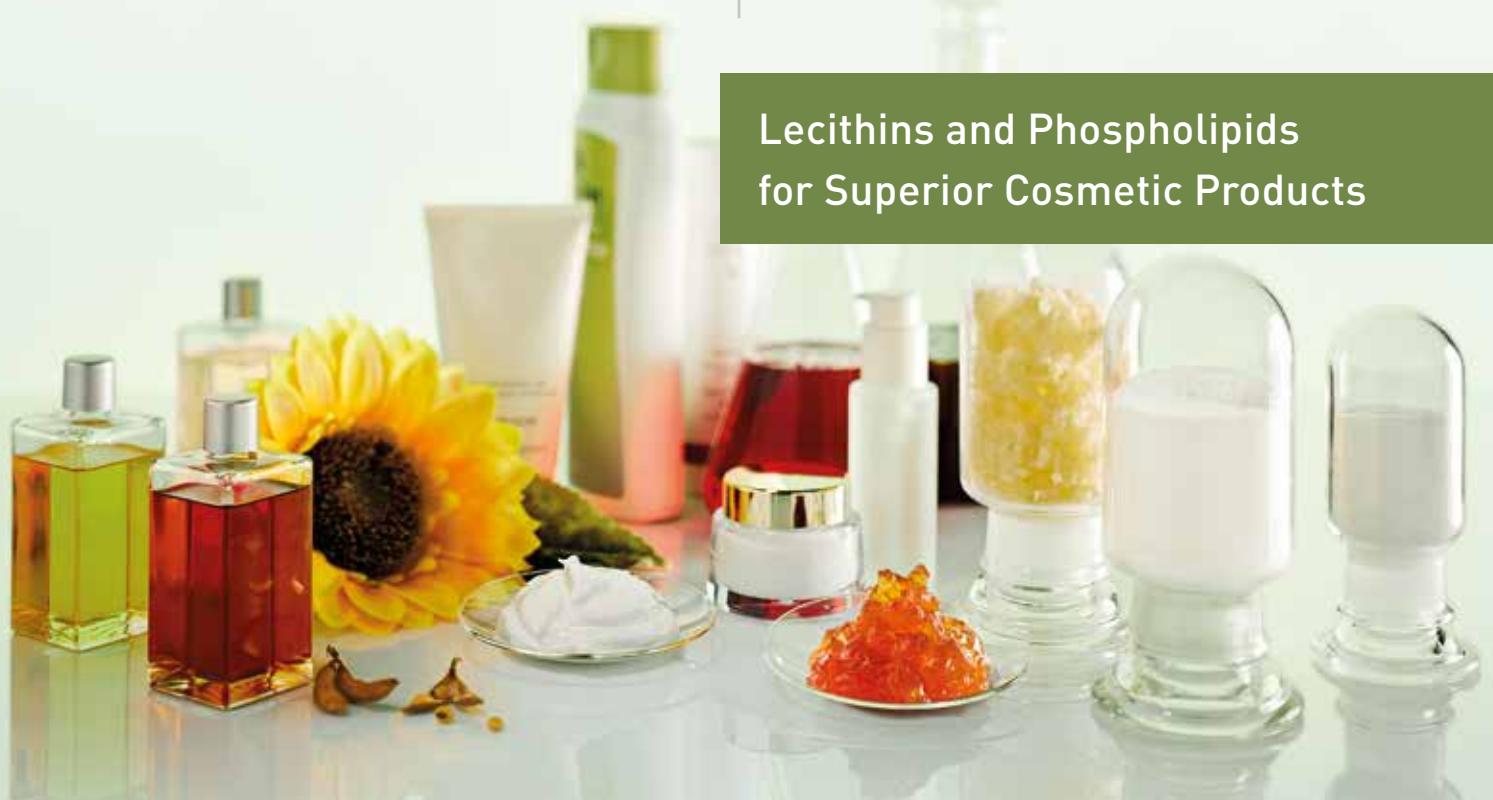


PRODUCT CATALOG

**Lecithins and Phospholipids
for Superior Cosmetic Products**



We make beauty natural.



03

About Lipoid Kosmetik

Expertise

Lipoid Kosmetik is a leading manufacturer of natural raw materials for the cosmetic and personal care industry. High-quality botanical actives and extracts (Lipoid Kosmetik AG, Switzerland) as well as pharma grade natural lecithins and phospholipids (Lipoid GmbH, Germany) are part of our sophisticated portfolio.

As a pioneer in both fields, Lipoid Kosmetik has gained an outstanding reputation in the global cosmetic industry over the last 45 years. This long-standing expertise, in combination with the exceptional quality of our portfolio, enables our customers to develop innovative, functional and natural cosmetic products meeting the highest standards.



We offer a wide range of lecithins and phospholipids based on sunflower



Soybean (also non-GMO) is one of our most processed raw materials

Research & Development

At its two R&D facilities, one in Germany and the other in Switzerland, Lipoid Kosmetik develops innovative products and customized solutions in close cooperation with our customers.

Quality

Our quality-management system meets the highest standards set by the regulatory authorities and the cosmetic industry. All manufacturing sites for our phospholipid portfolio are GMP and ISO 9001 certified. Our Ludwigshafen facility has also passed inspection by the US FDA.

Regulatory

We assure the compliance of our products with national and international regulations and provide superior regulatory support to our customers.

Sustainability

Lipoid is committed to the principles of sustainability and environmental protection.

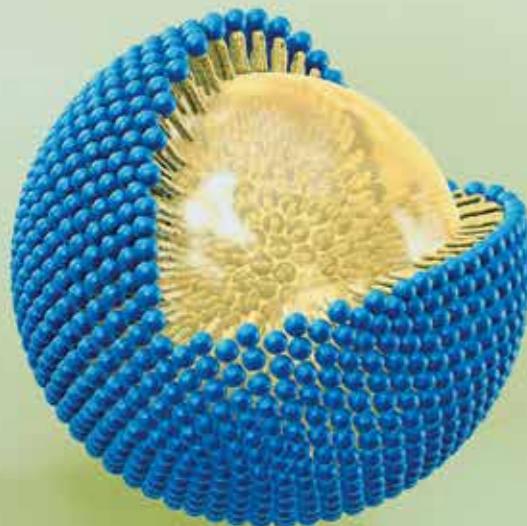
Because they are produced from renewable raw materials in processes characterized by minimal usage of auxiliary materials, our products display significantly enhanced sustainability. The by-products of the production processes are sought after in the end market and the auxiliary materials used are mostly recycled. Waste can therefore be entirely avoided or reduced to a minimum in most processes.

Phospholipids:

The molecules with a hydrophilic head and a lipophilic tail are essential part of our cell membranes and are the main functional components of our formulations

**Lamellar structure in SLM:**

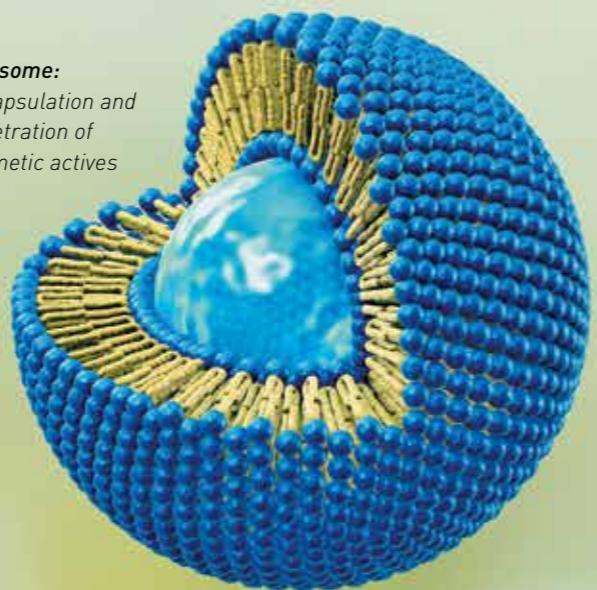
Recovery and restauration of the skin barrier



Emulsion oil droplet:
Powerful emulsifier with unique skin feel

Liposome:

Encapsulation and penetration of cosmetic actives



Facing page: Schematic diagram of phospholipids, a lamellar structure, an emulsion droplet and a liposome.



R & D at Ludwigshafen/Germany



Production facility at Ludwigshafen/Germany

Phospholipids in Cosmetics

Phospholipids are versatile raw materials that will add technical as well as physiological benefits to your formulations. Phospholipids can be used in a broad variety of product lines, such as leave-on, rinse-off, sun care or color cosmetics products.

Tolerability

Phospholipids number among the body's own building blocks and are an essential part of our cell membranes. Therefore, they are highly biocompatible, completely biodegradable, and irritation-free, making them exceptionally suitable for sophisticated, high-end skin care products. Many of our phospholipids are based on non-GMO soy or on sunflower, making them suitable for COSMOS approved formulations. In general, because of their naturalness and excellent tolerability, phospholipids are widely used in products for sensitive or damaged skin, baby care and dermatocosmetics.

Applications

Based on their amphiphilic character and their ability to interact with human skin, phospholipids can serve as actives for skin protection and skin rejuvenation, delivery systems for cosmetic active ingredients and as emulsifier systems with perfect skin feel. They can form colloidal systems like liposomes or micelles, or even form lamellar structures mimicking the skin's natural lipid layer.

Our experienced application engineers are continuously investigating the useability of our phospholipids in various cosmetic applications. We are regularly developing new frame formulations and innovative concepts, in order to offer the best technical support to our customers and partners.

Our products are easy to handle and to formulate with standard laboratory or production equipment, they are freely combinable with other cosmetic raw materials such as oils, thickeners, emollients, preservatives, actives, etc.

Scientific Standards: State of the Art Studies

To investigate the capabilities of our products, we collaborate with leading institutes to generate *in vitro* as well as *in vivo* data.

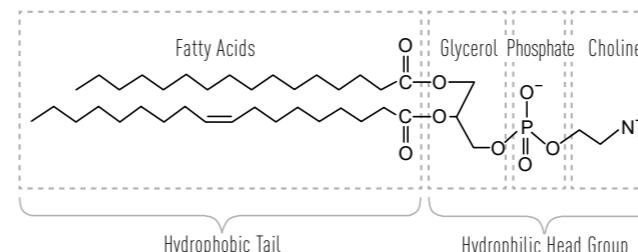


Fig. 1: Molecular structure of phosphatidylcholine, a typical phospholipid.

Multifunctionality is the Key

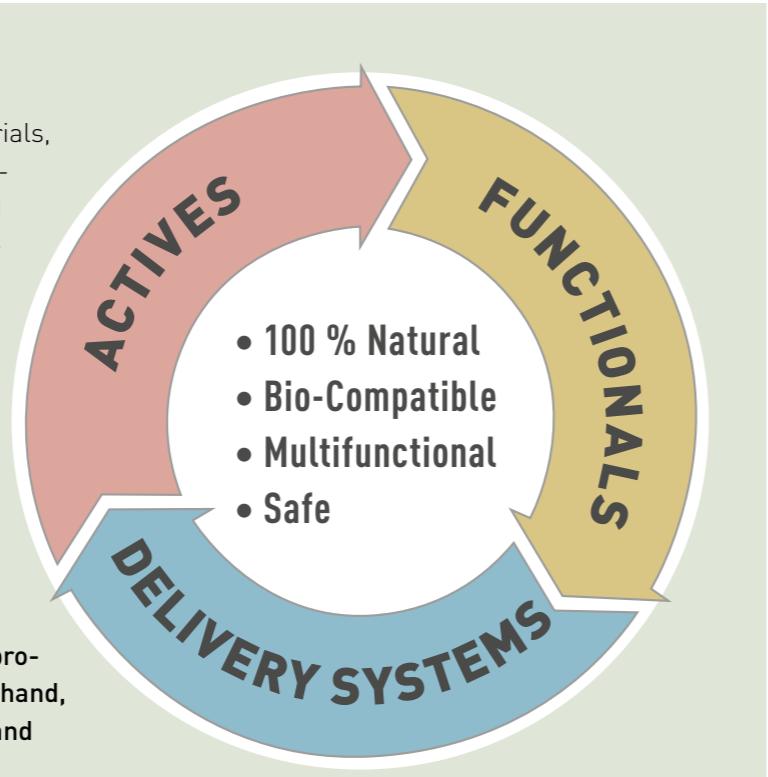
Phospholipids are multifunctional raw materials, that combine technical and physiological features. This results in a unique versatility, and thus provides new opportunities for sophisticated cosmetic formulations.

Unsaturated phospholipids:

- are excellent penetration enhancers
- function as actives for skin rejuvenation

Hydrogenated phospholipids

- are powerful emulsifiers with superior skin feel
- will restore the skin lipid barrier and protect the skin from water loss on the one hand, and environmental stress on the other hand



Application Guide

	Main Benefit	Additional Benefit	PHOSPHOLIPON® 90 G	LIPOID P 75-3	SLM Skin Lipid Matrix®	Natipide®	PHOSAL®	LIPOID Liposome	PhytoSolve®
ACTIVE	Skin Rejuvenation								
FUNCTIONAL	Repair & Protect								
DELIVERY SYSTEM	Emulsifier								
	Skin Feel								
ACTIVE	Hydrophilic								
FUNCTIONAL	Empty	Hydrophilic							
DELIVERY SYSTEM	Lipophilic								
ACTIVE	Hydrophilic								
FUNCTIONAL	Loaded	Lipophilic							

INCI Nomenclature	
Depending on the content of phosphatidylcholine, LIPOID and PHOSPHOLIPON® products comply with the following INCI names.	
INCI NAME	TYPE OF PHOSPHOLIPID
LECITHIN	Lecithin with < 80 % Phosphatidylcholine
HYDROGENATED LECITHIN	Hydrogenated Lecithin with < 80 % Phosphatidylcholine
PHOSPHATIDYLCHOLINE	Lecithin Fraction with ≥ 80 % Phosphatidylcholine
HYDROGENATED PHOSPHATIDYLCHOLINE	Hydrogenated Lecithin Fraction with ≥ 80 % Phosphatidylcholine

Phospholipids as Actives

Skin Repair & Protection

Hydrogenated phospholipids help to repair and restore our skin's natural protective barrier. They mimic the lamellar structure of the extracellular matrix and form a protective layer, preventing the skin from water loss.

Skin Rejuvenation

Unsaturated phospholipids are key molecules involved in the process of skin formation and skin renewal. As cosmetic active ingredients, they can significantly counteract the visible signs of skin aging on a cellular level.

Phospholipids as Functionals

Emulsifiers

Hydrogenated phospholipids are excellent emulsifiers, especially for o/w emulsions.

Skin Texture Modifiers

Hydrogenated phospholipids leave the skin with an extremely pleasant and smooth feeling.

Phospholipids as Delivery Systems

Loaded Carriers for Cosmetic Actives

Encapsulation of cosmetic ingredients with phospholipids (liposomal or as nanoemulsion) allows to achieve a more efficient and controlled transport of cosmetic active substances into the skin. For hydrophilic actives, we recommend our liposome range; for lipophilic actives, use our PhytoSolve® technology.

Empty Carriers for Cosmetic Actives

Phospholipids interact with the surface of the stratum corneum and thus can support the penetration of active ingredients into the skin. For hydrophilic actives, we recommend our Natipide® products; for lipophilic actives, use our PHOSAL® range.

Natural Lecithins & Phospholipids

ORIGIN	PRODUCT	INCI	DESCRIPTION	DETAILS
SOYBEAN	LIPOID S 45	Lecithin, Tocopherol	Soybean lecithin with 45 % phosphatidylcholine	<ul style="list-style-type: none"> China INCI compliant
	LIPOID S 75	Lecithin, Tocopherol	Soybean lecithin with 70 % phosphatidylcholine	<ul style="list-style-type: none"> China INCI compliant
	PHOSPHOLIPON® 90 G	Phosphatidylcholine, Ascorbyl Palmitate, Tocopherol	Soybean phosphatidylcholine (≥ 94 %)	<ul style="list-style-type: none"> China INCI compliant
NON-GMO SOYBEAN	LIPOID P 45	Lecithin, Tocopherol	Soybean lecithin with 45 % phosphatidylcholine from non-genetically modified plants	<ul style="list-style-type: none"> COSMOS-approved raw material China INCI compliant 
	LIPOID P 75	Lecithin, Tocopherol	Soybean lecithin with 70 % phosphatidylcholine from non-genetically modified plants	<ul style="list-style-type: none"> COSMOS-approved raw material China INCI compliant 
	LIPOID P 100	Phosphatidylcholine, Tocopherol	Soybean phosphatidylcholine from non-genetically modified plants	<ul style="list-style-type: none"> COSMOS-approved raw material China INCI compliant 
NON-GMO SUNFLOWER	LIPOID H 20	Lecithin, Tocopherol	Sunflower lecithin with 20 % phosphatidylcholine from non-genetically modified plants	<ul style="list-style-type: none"> COSMOS-approved raw material China INCI compliant 
	LIPOID H 100	Phosphatidylcholine, Tocopherol	Sunflower phosphatidylcholine from non-genetically modified plants	<ul style="list-style-type: none"> COSMOS-approved raw material China INCI compliant 

This is a selection from our entire product range. Please ask us so we can help you to find the right product.



LIPOID H 20



PHOSPHOLIPON® 90 G



LIPOID S 75

Hydrogenated Lecithins and Phospholipids

ORIGIN	PRODUCT	INCI	DESCRIPTION	DETAILS
SOYBEAN	PHOSPHOLIPON® 80 H	Hydrogenated Lecithin	Biomimetic emulsifier, hydrogenated soybean lecithin with 70 % phosphatidylcholine	<ul style="list-style-type: none"> China INCI compliant
	PHOSPHOLIPON® 90 H	Hydrogenated Phosphatidylcholine	Biomimetic emulsifier, hydrogenated soybean phosphatidylcholine (≥ 90 %)	<ul style="list-style-type: none"> China INCI compliant
NON-GMO SOYBEAN	LIPOID P 75-3	Hydrogenated Lecithin	Biomimetic emulsifier, hydrogenated soybean lecithin with 70 % phosphatidylcholine	<ul style="list-style-type: none"> COSMOS-approved raw material China INCI compliant 
	LIPOID P 100-3	Hydrogenated Phosphatidylcholine	Biomimetic emulsifier, hydrogenated soybean phosphatidylcholine (≥ 90 %)	<ul style="list-style-type: none"> COSMOS-approved raw material China INCI compliant 
NON-GMO SUNFLOWER	LIPOID H 100-3	Hydrogenated Phosphatidylcholine	Biomimetic emulsifier, hydrogenated sunflower phosphatidylcholine (≥ 90 %)	<ul style="list-style-type: none"> COSMOS-approved raw material China INCI compliant 

This is a selection from our entire product range. Please ask us so we can help you to find the right product.

SLM | SKIN LIPID MATRIX®

ORIGIN	PRODUCT	INCI	DESCRIPTION	DETAILS
SOYBEAN	SLM 2026	Aqua (Water), Caprylic/Capric Triglyceride, Hydrogenated Phosphatidylcholine, Pentylene Glycol, Glycerin, Butyrospermum Parkii (Shea) Butter, Squalane, Ceramide NP	Cream matrix with hydrogenated soybean phosphatidylcholine and skin-identical lipids of the stratum corneum	<ul style="list-style-type: none"> China INCI compliant (Ceramide NP = Ceramide 3) Dosage: 10 - 30 %
NON-GMO SUNFLOWER	SLM Eco®	Aqua (Water), Caprylic/Capric Triglyceride, Hydrogenated Phosphatidylcholine, Pentylene Glycol, Glycerin, Butyrospermum Parkii (Shea) Butter, Squalane, Ceramide NP	Cream matrix with hydrogenated sunflower phosphatidylcholine from non-genetically modified plants and skin-identical lipids of the stratum corneum	<ul style="list-style-type: none"> COSMOS-approved raw material (Ceramide NP = Ceramide 3) China INCI compliant Dosage: 10 - 30 % 

This is a selection from our entire product range. Please ask us so we can help you to find the right product.



PHOSPHOLIPON® 90 H



LIPOID P 75-3



SLM Skin Lipid Matrix® 2026

Empty Liposomal Carrier for Hydrophilic Substances

ORIGIN	PRODUCT	INCI	DESCRIPTION	DETAILS
NON-GMO SOYBEAN	Natipide® Eco	Aqua, Lecithin, Glycerin, Pentylene Glycol, Tocopherol, Sodium Hydroxide	Empty pre-liposomes with soybean lecithin from non-genetically modified plants for encapsulation of hydrophilic actives	<ul style="list-style-type: none"> • COSMOS-approved raw material • <i>in vivo</i> data • China INCI compliant 
SOYBEAN	Natipide® II	Aqua (Water), Lecithin, Alcohol, Tocopherol, Sodium Hydroxide	Empty pre-liposomes with soybean lecithin for encapsulation of hydrophilic actives	<ul style="list-style-type: none"> • China INCI compliant

This is a selection from our entire product range. Please ask us so we can help you to find the right product.

Liposomal Delivery Systems with Hydrophilic Actives

ORIGIN	PRODUCT	INCI	DESCRIPTION	DETAILS
NON-GMO SOYBEAN	LIPOID Liposome B3 with Niacinamide	Aqua (Water), Niacinamide, Alcohol, Lecithin, Glycerin, Potassium Phosphate, Disodium Phosphate, Sodium Hydroxide, Tocopherol	Aqueous liposome dispersion loaded with niacinamide	<ul style="list-style-type: none"> • China INCI compliant • Dosage: 1 - 5 %
	Caffeine Herbasome® with Caffeine	Aqua (Water), Niacinamide, Propylene Glycol, Caffeine, Lecithin, Phenoxyethanol, Tocopherol	Aqueous liposome dispersion with caffeine	<ul style="list-style-type: none"> • <i>in vitro</i> data • China INCI compliant • Dosage: 1 - 5 %

This is a selection from our entire product range. Please ask us so we can help you to find the right product.

Delivery Systems with Hydrophilic and Lipophilic Actives

ORIGIN	PRODUCT	INCI	DESCRIPTION	DETAILS
NON-GMO SOYBEAN	Ultraspheres® ACE with Vitamin A, C and E	Glycerin, Aqua (Water), Phosphatidylcholine, Tocopheryl Acetate, Sodium Ascorbyl Phosphate, Retinyl Palmitate, Citric Acid, Tocopherol, Ascorbyl Palmitate	Finely dispersed emulsion with vitamin A, C and E and soybean phosphatidylcholine as single emulsifier	<ul style="list-style-type: none"> • China INCI compliant • Dosage: 1 - 5 %

This is a selection from our entire product range. Please ask us so we can help you to find the right product.



Natipide® Eco



Caffeine Herbasome®

Empty Carrier for Lipophilic Substances

ORIGIN	PRODUCT	INCI	DESCRIPTION	DETAILS
NON-GMO SOYBEAN	PHOSAL® 40 IP	Lecithin, Helianthus Annuus (Sunflower) Seed Oil, Alcohol, Tocopherol	Soybean phosphatidylcholine ($\geq 37\%$) from non-genetically modified plants in organic sunflower oil.	<ul style="list-style-type: none"> • COSMOS-approved raw material • China INCI compliant • <i>in vitro</i> data 
SOYBEAN	PHOSAL® 50 SA+	Phosphatidylcholine, Carthamus Tinctorius (Safflower) Seed Oil, Glycerin, Caprylic/Capric Triglyceride, Alcohol, Sunflower Seed Oil Glyceride, Soy Acid, Ascorbyl Palmitate, Tocopherol	Soybean phosphatidylcholine ($\geq 50\%$) in safflower seed oil.	
	PHOSAL® 53 MCT	Phosphatidylcholine, Caprylic/Capric Triglyceride, Alcohol, Sunflower Seed Oil Glyceride, Oleic Acid, Ascorbyl Palmitate, Tocopherol	Soybean phosphatidylcholine ($\geq 50\%$) in medium-chain triglycerides (MCT).	

This is a selection from our entire product range. Please ask us so we can help you to find the right product.

Delivery Systems with Lipophilic Actives

ORIGIN	PRODUCT	INCI	DESCRIPTION	DETAILS
NON-GMO SOYBEAN	PhytoSolve® Q10 with Coenzyme Q10	Glycerin, Aqua (Water), Ubiquinone, Caprylic/Capric Triglyceride, Lecithin, Tocopherol, Sodium Hydroxide	Finely dispersed transparent emulsion with coenzyme Q10 and soybean lecithin from non-genetically modified plants as single emulsifier	<ul style="list-style-type: none"> • China INCI compliant • Dosage: 1 - 5 % • <i>in vitro</i> data
	PhytoSolve® A with Vitamin A	Glycerin, Aqua (Water), Retinyl Palmitate, Caprylic/Capric Triglyceride, Lecithin, Tocopherol	Finely dispersed transparent emulsion with vitamin A and soybean lecithin from non-genetically modified plants as single emulsifier	<ul style="list-style-type: none"> • China INCI compliant • Dosage: 1 - 5 % • <i>in vitro</i> data
	PhytoSolve® E with Vitamin E	Glycerin, Tocopheryl Acetate, Caprylic/Capric Triglyceride, Aqua (Water), Lecithin, Tocopherol	Finely dispersed transparent emulsion with vitamin E and soybean lecithin from non-genetically modified plants as single emulsifier	<ul style="list-style-type: none"> • China INCI compliant • Dosage: 1 - 5 %

This is a selection from our entire product range. Please ask us so we can help you to find the right product.



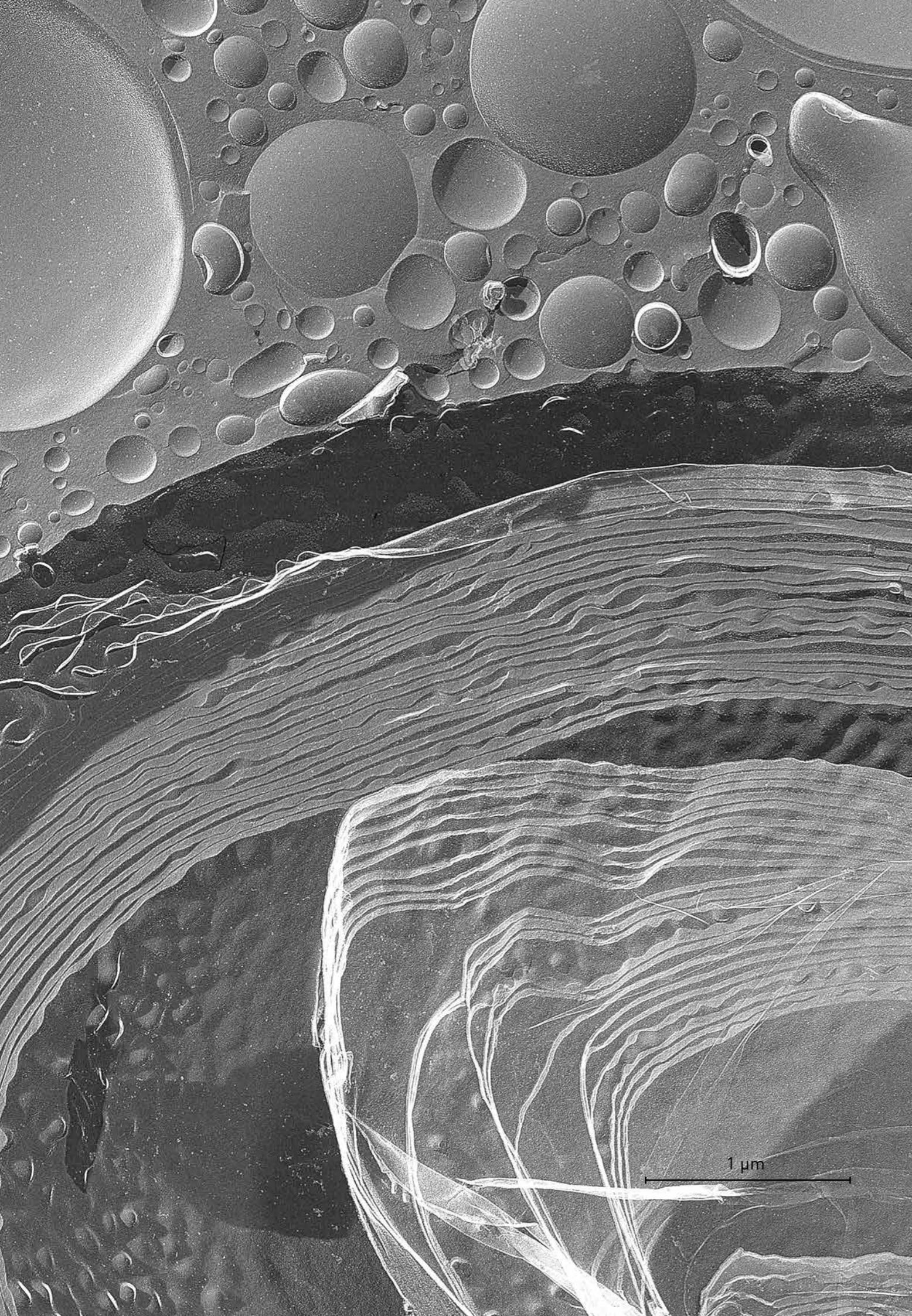
PHOSAL® 40 IP



PHOSAL® 53 MCT



PhytoSolve® Q10



BRAND NAME	SOURCE
PHOSPHOLIPON®	Phospholipids based on GMO Soybean
LIPOID S Range	Phospholipids based on GMO Soybean
LIPOID P Range	Phospholipids based on non-GMO Soybean
LIPOID H Range	Phospholipids based on non-GMO Sunflower
NATIPIDE®	Empty Carrier for Hydrophilic Actives
PHOSAL®	Empty Carrier for Lipophilic Actives
PhytoSolve®	Loaded Carrier for Lipophilic Actives
ULTRASPERHERES®	Loaded Carrier f. Hydrophilic/Lipophilic Actives
SLM Skin Lipid Matrix®	Cream Matrix, Skin Repair & Protection

Facing page: Electron micrograph of a SLM Skin Lipid Matrix® formulation

Discover our Actives & Botanicals

This catalog covers the phospholipid products produced by Lipoid GmbH in Germany. If you are interested in our second product line, please request our Actives and Botanicals Catalog issued by the Lipoid Kosmetik AG in Switzerland.





Facing page: "Lipoid GmbH" Head-quarters and production plant 2 at Ludwigshafen/Rhine, Germany



Production plant 1 "Lipoid GmbH" at Ludwigshafen/Rhine, Germany



Manufacturing site "PHOSPHOLIPID GmbH" at Cologne, Germany



Manufacturing site "R&R Extrakte GmbH" at Cologne, Germany

All data and recommendations made herein are based on our present state of knowledge. We disclaim any liability for risks or formulate that may result from the use of our products, including improper and illicit use. Product properties identified and highlighted by specific tests or studies are to be interpreted in the context of the test/study conditions only. Please be aware that the use of any claim on cosmetic products is the sole responsibility of the customer and is regulated by your local Regulatory Body.

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