

PRODUCT CATALOG

Phospholipids for Liposomes,
Emulsions & Lamellar Structures



We make beauty natural.

About Lipoid Kosmetik

Expertise

Lipoid Kosmetik is a leading manufacturer of natural ingredients for the cosmetic and personal care industry. High quality botanical actives and extracts (Lipoid Kosmetik AG, Switzerland) as well as high quality 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 a period of 50 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.

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 valuable raw materials in other markets and the auxiliary materials used are mostly recycled. Waste can therefore be entirely avoided or reduced to a minimum in most processes.

Facing page: More and more people understand the need for natural products made from renewable raw materials.



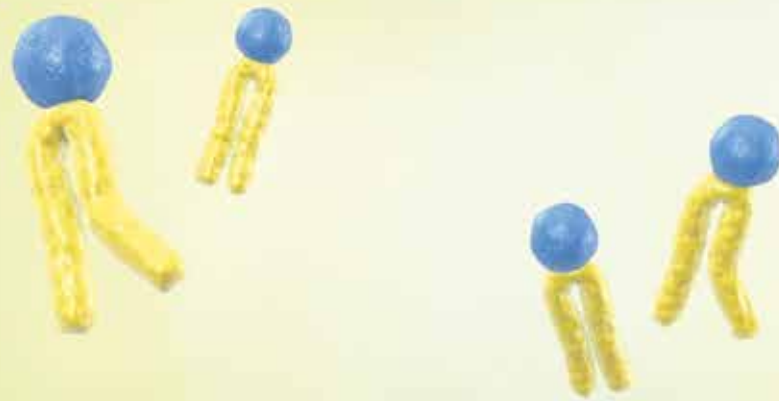
We offer a wide range of lecithins and phospholipids based on sunflower



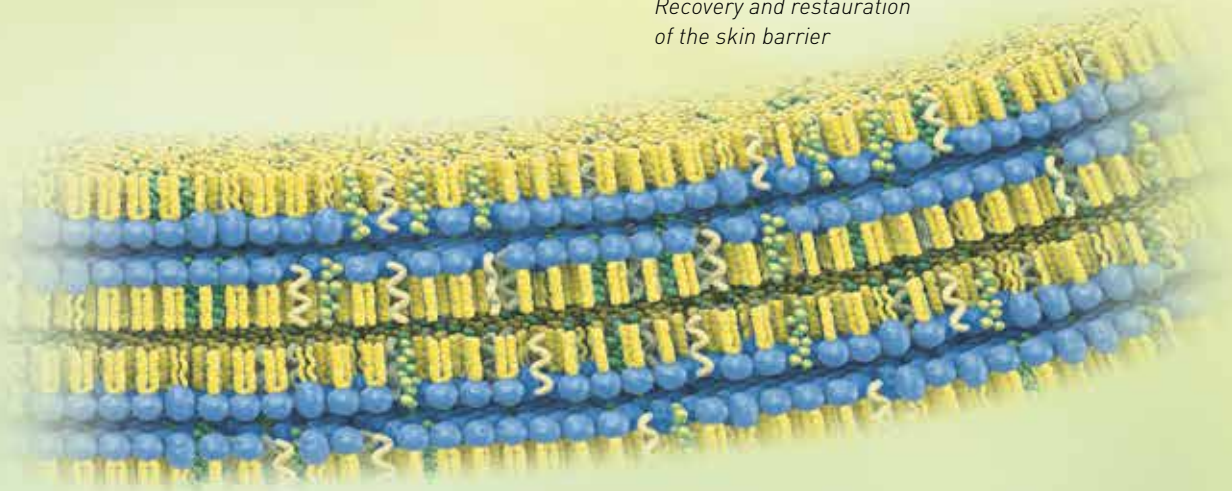
Soybean (also non-GMO) is one of our most processed raw materials

Phospholipids:

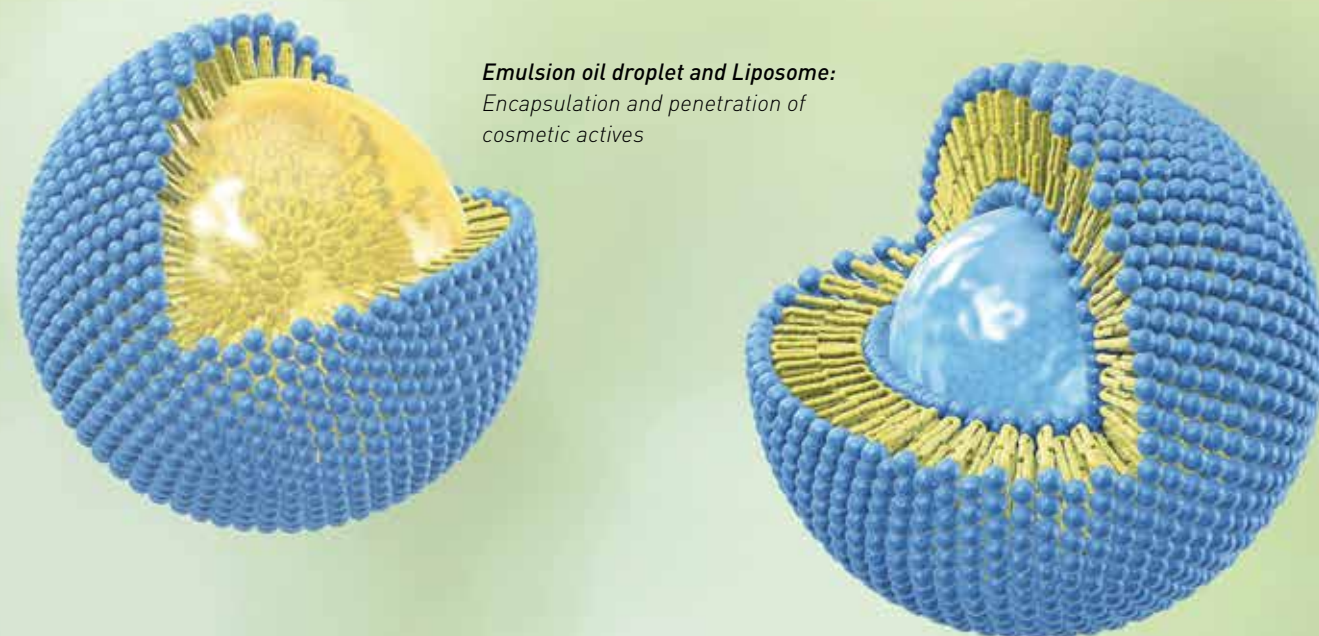
The molecules with a hydrophilic head and a lipophilic tail are essential parts of our cell membranes and are the main functional components of our formulations



Lamellar structure in SLM:
Recovery and restauration
of the skin barrier



Emulsion oil droplet and Liposome:
Encapsulation and penetration of
cosmetic actives



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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

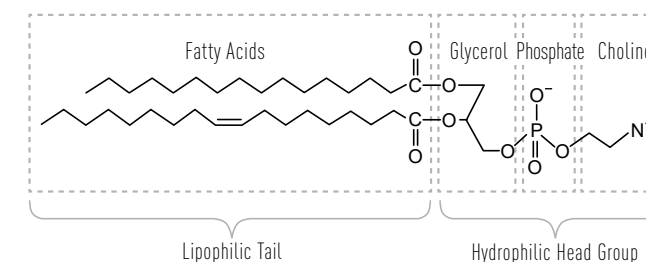


Fig. 1: Molecular structure of phosphatidylcholine, a typical
phospholipid

Natural Phospholipids

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 cosmetic 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 extremely suitable for sophisticated, high-end skin care products. Many of our phospholipids are based on non-GMO soy or sunflower, making them suitable for COSMOS- and NATRUE-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 dermto-cosmetics.

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 emulsifiers 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.

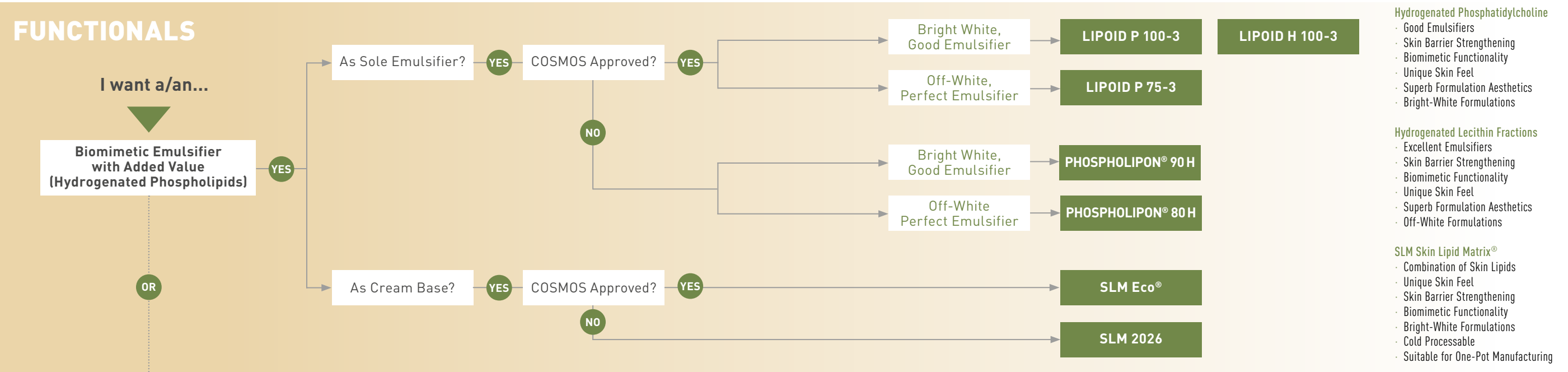
Our experienced application engineers are continuously investigating the usability of our phospholipids in various cosmetic applications. We are regularly developing new frame formulations and innovative concepts, in order to offer the best technical support to our customers and partners.

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.

Which Product is the Perfect Fit?



Multifunctionality is the Key

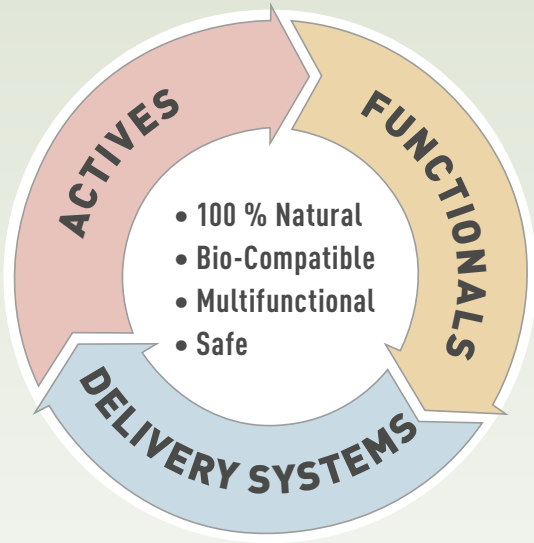
Based on their amphiphilic character and their ability to interact with human skin, phospholipids can serve as actives for skin protection and skin rejuvenation, delivery systems for cosmetic active ingredients, and as emulsifier systems with perfect skin feel. They can form colloidal systems like liposomes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

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



INCI Nomenclature

Our products are produced from the natural, plant-based raw material lecithin, which is still reflected in the INCI nomenclature (see below).

We fractionate the lecithin and purify the phospholipids contained therein. The phospholipids are obtained in fractions of ascending phosphatidylcholine content. Therefore, we prefer using the term "phospholipids" or, for the highest purity, "phosphatidylcholine", for our products.










Depending on the content of phosphatidylcholine, LIPOID and PHOSPHOLIPON® products comply with the following INCI names:

INCI NAME	TYPE OF PHOSPHOLIPID
LECITHIN	Lecithin Fractions with < 80 % Phosphatidylcholine
HYDROGENATED LECITHIN	Hydrogenated Lecithin Fractions with < 80 % Phosphatidylcholine
PHOSPHATIDYLCHOLINE	Lecithin Fractions with ≥ 80 % Phosphatidylcholine
HYDROGENATED PHOSPHATIDYLCHOLINE	Hydrogenated Lecithin Fractions with ≥ 80 % Phosphatidylcholine




ORIGIN	PRODUCT, PROPERTY & APPEARANCE		INCI	DESCRIPTION	DETAILS	CONFORMITY
Lecithin Fractions and Phospholipids						
SOYBEAN	<div>LIPOID S 45</div> <div>FUNCTIONALDELIVERY</div>		Lecithin, Tocopherol	Soybean lecithin fraction with 45 % phosphatidylcholine	<ul style="list-style-type: none">China INCI compliant	
	<div>LIPOID S 75</div> <div>FUNCTIONALDELIVERY</div>		Lecithin, Tocopherol	Soybean lecithin fraction with 70 % phosphatidylcholine	<ul style="list-style-type: none">China INCI compliant	
	<div>PHOSPHOLIPON® 90 G</div> <div>ACTIVE</div>		Phosphatidylcholine, Ascorbyl Palmitate, Tocopherol	Soybean phosphatidylcholine (≥ 94 %)	<ul style="list-style-type: none">China INCI compliant	
NON-GMO SOYBEAN	<div>LIPOID P 45</div> <div>FUNCTIONALDELIVERY</div>		Lecithin, Tocopherol	Soybean lecithin fraction with 45 % phosphatidylcholine from non-genetically modified plants	<ul style="list-style-type: none">COSMOS-approved raw materialChina INCI compliant	<div> COSMOS APPROVED</div>
	<div>LIPOID P 75</div> <div>FUNCTIONALDELIVERY</div>		Lecithin, Tocopherol	Soybean lecithin fraction with 70 % phosphatidylcholine from non-genetically modified plants	<ul style="list-style-type: none">COSMOS-approved raw materialChina INCI compliant	<div> COSMOS APPROVED</div>
	<div>LIPOID P 100</div> <div>ACTIVE</div>		Phosphatidylcholine, Tocopherol	Soybean phosphatidylcholine from non-genetically modified plants	<ul style="list-style-type: none">COSMOS-approved raw materialChina INCI compliant	<div> COSMOS APPROVED</div>
SUNFLOWER (NON-GMO)	<div>LIPOID H 100</div> <div>ACTIVE</div>		Phosphatidylcholine, Tocopherol	Sunflower phosphatidylcholine from non-genetically modified plants	<ul style="list-style-type: none">COSMOS-approved raw materialChina INCI compliant	<div> COSMOS APPROVED</div>

ORIGIN	PRODUCT, PROPERTY & APPEARANCE	INCI	DESCRIPTION	DETAILS	CONFORMITY
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Hydrogenated Lecithin Fractions




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

SLM | SKIN LIPID MATRIX[®]




SOYBEAN	<div>SLM 2026</div> <div>FUNCTIONAL ACTIVE</div>		Aqua (Water), Caprylic/Capric Triglyceride, Hydrogenated Phosphatidylcholine, Penty-lene 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 % 	
SUNFLOWER (NON-GMO)	<div>SLM Eco®</div> <div>FUNCTIONAL ACTIVE</div>		Aqua (Water), Caprylic/Capric Triglyceride, Hydrogenated Phosphatidylcholine, Penty-lene 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 % 	

ORIGIN	PRODUCT, PROPERTY & APPEARANCE	INCI	DESCRIPTION	DETAILS	CONFORMITY
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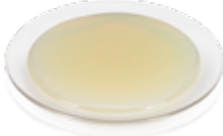
Empty Liposomal Carriers for Hydrophilic Substances





SOYBEAN	Natipide® II		Aqua (Water), Lecithin, Alcohol, Tocopherol, Sodium Hydroxide	Empty pre-liposomes of soybean phospholipids for encapsulation of hydrophilic actives	<ul style="list-style-type: none"> China INCI compliant Dosage: 1 – 5 % 	
	DELIVERY					
NON-GMO SOYBEAN	Natipide® Eco		Aqua (Water), Lecithin, Glycerin, Pentylene Glycol, Tocopherol, Sodium Hydroxide	Empty pre-liposomes of soybean phospholipids from non-genetically modified plants for encapsulation of hydrophilic actives	<ul style="list-style-type: none"> COSMOS-approved raw material China INCI compliant Dosage: 1 – 5 % <i>in vivo</i> data 	
	DELIVERY					


Liposomal Delivery Systems with Hydrophilic Actives

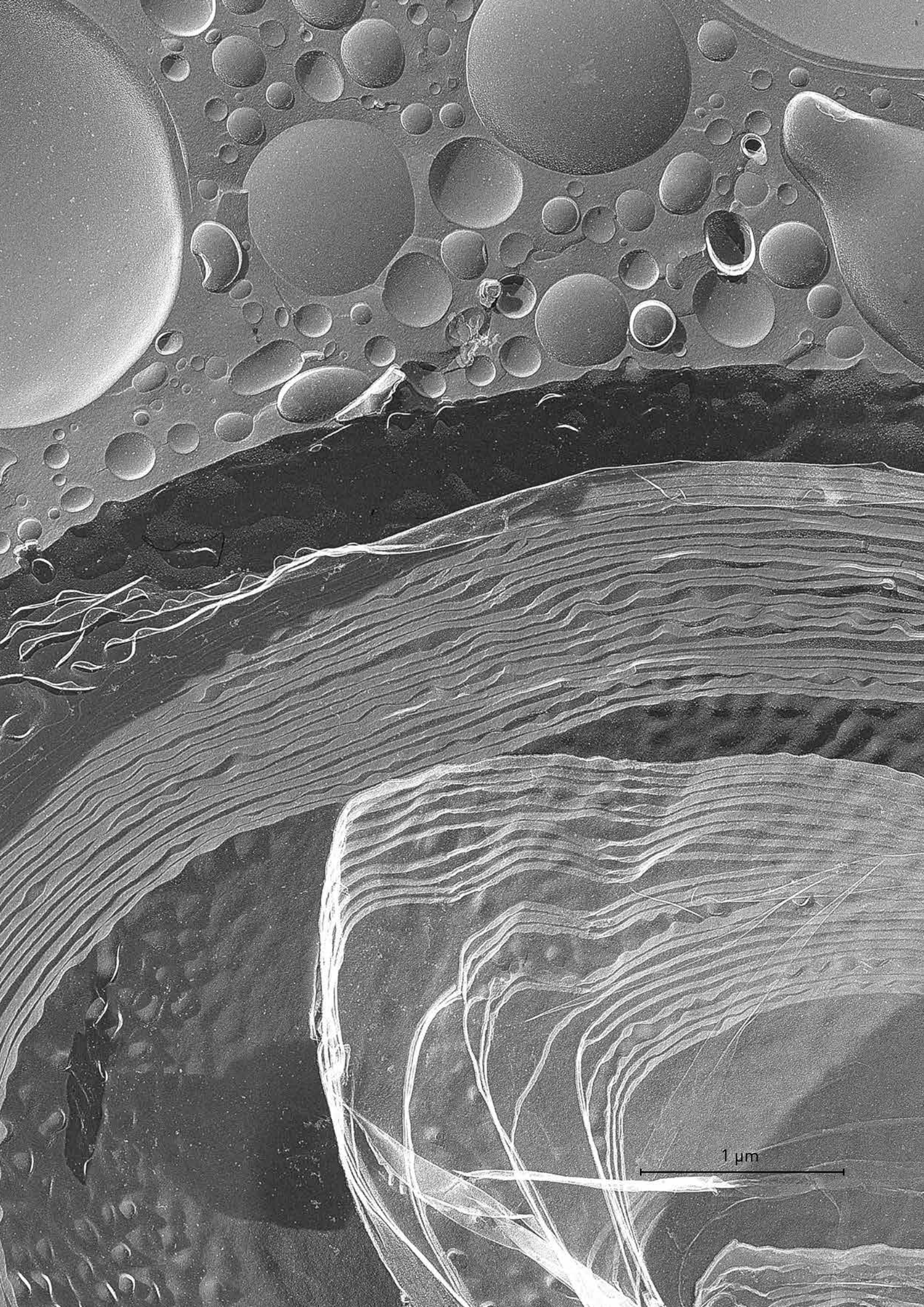
NON-GMO SOYBEAN	LIPOID Liposome C Eco with Vitamin C		Glycerin, Aqua (Water), Ascorbyl Glucoside, Lecithin, Sodium Hydroxide, Tocopherol	Liposome dispersion of soybean phospholipids with ascorbyl-2-glucoside (vitamin C)	<ul style="list-style-type: none"> COSMOS-approved raw material China INCI compliant Dosage: 1 – 5 % <i>in vivo</i> data 	
	DELIVERY ACTIVE					
	Caffeine Herbasome® with Caffeine		Aqua (Water), Niacinamide, Propanediol, Caffeine, Lecithin, Tocopherol	Liposome dispersion of soybean phospholipids with caffeine	<ul style="list-style-type: none"> China INCI compliant Dosage: 1 – 5 % <i>in vitro</i> data 	
	DELIVERY ACTIVE					

Delivery System with Hydrophilic and Lipophilic Actives

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	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 % 	
	DELIVERY ACTIVE					

ORIGIN	PRODUCT, PROPERTY & APPEARANCE	INCI	DESCRIPTION	DETAILS	CONFORMITY
Empty Carriers for Lipophilic Substances					
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 (≥ 50 %) in safflower seed oil	<ul style="list-style-type: none"> Dosage: 1 – 5 % 	
	PHOSAL® 53 MCT 	Phosphatidylcholine, Caprylic/Capric Triglyceride, Alcohol, Sunflower Seed Oil Glyceride, Oleic Acid, Ascorbyl Palmitate, Tocopherol	Soybean phosphatidylcholine (≥ 50 %) in medium-chain triglycerides (MCT)	<ul style="list-style-type: none"> Dosage: 1 – 5 % 	
NON-GMO SOYBEAN	PHOSAL® 40 IP 	Lecithin, Helianthus Annuus (Sunflower) Seed Oil, Alcohol, Tocopherol	Fluid mixture of soybean phospholipids from non-genetically modified plants enriched in phosphatidylcholine (≥ 37 %) in organic sunflower oil	<ul style="list-style-type: none"> COSMOS-approved raw material China INCI compliant Dosage: 1 – 5 % <i>in vivo</i> data 	

Delivery Systems with Lipophilic Actives					
NON-GMO SOYBEAN	PhytoSolve® Q10 with Coenzyme Q10 	Glycerin, Aqua (Water), Ubiquinon, Caprylic/Capric Triglyceride, Lecithin, Tocopherol, Sodium Hydroxide	Finely dispersed emulsion with coenzyme Q10 and soybean phospholipids 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 emulsion with vitamin A and soybean phospholipids 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 emulsion with vitamin E and soybean phospholipids from non-genetically modified plants as single emulsifier	<ul style="list-style-type: none"> China INCI compliant Dosage: 1 – 5 % 	
	PhytoSolve® Astaxanthin with Astaxanthin 	Glycerin, Aqua (Water), Caprylic/Capric Triglyceride, Lecithin, Haematococcus Pluvialis Extract, Tocopherol, Sodium Chloride, Sodium Hydroxide, Helianthus Annuus (Sunflower) Seed Oil	Finely dispersed emulsion with astaxanthin and soybean phospholipids from non-genetically modified plants as single emulsifier	<ul style="list-style-type: none"> China INCI compliant Dosage: 0.1 – 2 % <i>in vitro</i> data <i>in vivo</i> data 	



Facing page: Electron micrograph of lamellar structures/liposomes in a phospholipid formulation

Our Natural Phospholipid Brands

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
ULTRASPHERES®	Loaded Carrier f. Hydrophilic/Lipophilic Actives
SLM Skin Lipid Matrix®	Cream Matrix, Skin Repair & Protection

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 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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CERTIFIED



NATURAL &
SUSTAINABLE



REUSAGE
OF WASTE