

**PERSONAL CARE**  
INGREDIENTS • FORMULATION • MANUFACTURE



# LITTLE BOOK OF SUSTAINABLE INGREDIENTS

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# LIPOID KOSMETIK

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 phospholipids (Lipoid GmbH, Germany) are part of our sophisticated portfolio. As a pioneer in these fields, Lipoid Kosmetik has gained an outstanding reputation in the global cosmetic industry over the last 50 years. This long-standing expertise, in combination with the exceptional quality of our portfolio, enables our customers to develop market innovative, functional and natural cosmetic products meeting the highest standards.

Encapsulation of cosmetic active ingredients in skin-friendly particles potentiates their skin interaction and results in a superior and long-lasting cosmetic effect.

LIPOID Liposome C Eco is an innovative natural, COSMOS-approved product, which combines the cosmetic benefits of ascorbyl glucoside (2-O-alpha-D-glucopyranosyl-L-ascorbic acid) with the excellent skin penetrating and rejuvenating properties of phospholipids and liposomes.<sup>1</sup> Ascorbyl glucoside is converted into ascorbic acid (Vitamin C) in the skin, providing a long-lasting cosmetic effect.<sup>2</sup>

Vitamin C is a powerful antioxidant, neutralizing and removing harmful free radical molecules and enhancing collagen formation. It inhibits the enzyme tyrosinase, thereby reducing melanogenesis and counteracting skin hyperpigmentation.<sup>3</sup> The ready-to-use formulation contains liposomes with a particle size of around 40–120 nm and is free of preservatives. The liposomes can be easily combined with any cosmetic formulation.

An *in vivo* study with a Chroma Meter showed a clear brightening of age spots treated with LIPOID Liposome C Eco compared to a placebo. In a separate study with a Cutometer®, LIPOID Liposome C Eco showed an additional improvement of the skin firmness. Overall, LIPOID Liposome C Eco is the ideal ingredient for fading of age spots, skin brightening, and formulation of anti-aging products.

1. Van Hoogevest, P. and Fahr, A. "Phospholipids in cosmetic carriers." *Nanocosmetics*, 95 – 140 (2019).

2. Kumano, Y., Sakamoto, T., et al. "In vitro and in vivo prolonged biological activities of novel vitamin C derivative, 2-O-alpha-D-glucopyranosyl-L-ascorbic acid (AA-2G), in cosmetic fields." *Journal of Nutritional Science and Vitaminology*, 44(3), 345 – 359 (1998).

3. Enescu, C. D., Bedford, L. M., et al. "A review of topical vitamin C derivatives and their efficacy." *Journal of Cosmetic Dermatology*, 21(6), 2349 – 2359 (2022).

## REFINE SERUM

		with LIPOID H 100-3, LIPOID H 100, LIPOID Liposome C Eco and HerbaGlow® NRG		
PHASE	PRODUCT	SUPPLIERS	US INCI NAME	% W/W
<b>A</b>	Deionized Water		Aqua (Water)	ad 100
	Solagum™ AX	1	Acacia Senegal Gum, Xanthan Gum	0.20
	Corn Starch		Zea Mays (Corn) Starch	2.00
	Glycerin 86.5 %		Glycerin, Aqua (Water)	5.00
	LIPOID H 100-3	2	Hydrogenated Phosphatidylcholine	1.50
<b>B</b>	Cosphaderm® Dicapo natural	3	Caprylyl Glycol, Propanediol, Glyceryl Caprylate	0.70
	Cosphaderm® Pentiol	3	Pentylene Glycol	3.75
	Behenyl Alcohol		Behenyl Alcohol	1.00
<b>C</b>	Almond Oil		Prunus Amygdalus Dulcis (Sweet Almond) Oil	3.00
	Castor Oil		Ricinus Communis (Castor) Seed Oil	2.50
	MCT		Caprylic/Capric Triglyceride	3.00
	Baumwoll Soft Butter™	4	Gossypium Herbaceum (Cotton) Seed Oil, Hydrogenated Vegetable Oil, Tocopherol	1.50
	LIPOID H 100	2	Phosphatidylcholine, Tocopherol	1.00
	Covi-ox® T-90 EU C	5	Tocopherol	0.20
	LIPOID Liposome C Eco	2	Glycerin, Aqua (Water), Ascorbyl Glucoside, Lecithin, Sodium Hydroxide, Tocopherol	5.00
	HerbaGlow® NRG	2	Propanediol, Aqua (Water), Capparis Spinosa Bud Extract, Rhodiola Rosea Root Extract, Morus Nigra Leaf Extract	1.00
	PÖ Luxury Cocoa Butter P0241528	6	Parfum (Fragrance), Hexyl Cinnamal, Geraniol	0.20
	Sodium Hydroxide		Sodium Hydroxide	q.s.

**Procedure:** Mix components of phase A at 75°C. Mix components of phase B to 70°C. Add LIPOID H 100 and Covi-ox® T-90 EU C and stir until homogenous. Add phase B to A and homogenize. Cool down while stirring. Add phase C to AB. Adjust pH with D to 6.5 if necessary.

**Properties:** Appearance: white to very slightly beige, thin lotion

pH value: approx. 6.5

Viscosity value: ~1000 mPas (Anton Paar ViscoQC 300-R Sp 4/100 rpm/25°C)

Stability: Successfully passed internal stress test (6 weeks at 45 °C and 5 freeze-thaw cycles -18/+45°C)

**Suppliers:** 1. Seppic 2. Lipoid Kosmetik 3. Cosphatec 4. Greentech 5. BASF 6. Frey & Lau

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Kosmetik

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## VITAMIN SHOT FOR YOUR SKIN

PHASE	PRODUCT	SUPPLIERS	US INCI NAME	% W/W	
with LIPOID P 75-3, PhytoSolve® E, PhytoSolve® A, Caffeine Herbasome®, Vitamin F oilsoluble N and LIPOID Liposome C Eco					
<b>A</b>	Deionized Water		Aqua (Water)	ad 100	
	Glycerin 86.5 %		Glycerin, Aqua (Water)	3.00	
	LIPOID P 75-3	1	Hydrogenated Lecithin	1.50	
	Solagum™ AX	2	Acacia Senegal Gum, Xanthan Gum	0.40	
	Kelco Gel CG-HA	3	Gellan Gum	0.15	
	Cosphaderm® Dicapo natural	4	Caprylyl Glycol, Propanediol, Glyceryl Caprylate	0.70	
	Cosphaderm® Pentiol natural	4	Pentylene Glycol	3.00	
	<b>B</b>	Behenyl Alcohol		Behenyl Alcohol	1.50
dermofeel® sensolv		5	Isoamyl Laurate	3.00	
Apricot Kernel Oil		6	Prunus Armeniaca (Apricot) Kernel Oil	2.00	
Almond Oil		7	Prunus Amygdalus Dulcis (Sweet Almond) Oil	5.00	
Apricot Soft Butter™		8	Prunus Armeniaca (Apricot) Kernel Oil, Hydrogenated Apricot Kernel Oil, Tocopherol	1.00	
Vitamin F oilsoluble N		1	Linolenic Acid, Oleic Acid, Linoleic Acid, Palmitic Acid, Stearic Acid, Tocopherol, Helianthus Annuus (Sunflower) Seed Oil	0.50	
<b>C</b>		PhytoSolve® E	1	Glycerin, Tocopheryl Acetate, Caprylic/Capric Triglyceride, Aqua (Water), Lecithin, Tocopherol	1.00
		PhytoSolve® A	1	Glycerin, Tocopheryl Acetate, Caprylic/Capric Triglyceride, Aqua (Water), Lecithin, Tocopherol	1.00
	Caffeine Herbasome®	1	Aqua (Water), Niacinamide, Propanediol, Caffeine, Lecithin, Tocopherol	1.00	
	LIPOID Liposome C Eco	1	Glycerin, Aqua (Water), Ascorbyl Glucoside, Lecithin, Sodium Hydroxide, Tocopherol	1.00	
	PÖ Jazzle2Dazzle P0272710	9	Parfum (Fragrance), Linalool, Limonene	0.30	
	NaOH		Sodium Hydroxide	q.s.	

**Procedure:** Mix components of A at 70 °C. Mix components of B without Vitamin F oilsoluble N at 70 °C. Add Vitamin F oilsoluble N and stir shortly. Add phase B to A and homogenize. Cool down while stirring. Add C to AB. Add D. Adjust pH to 6.5 if necessary.

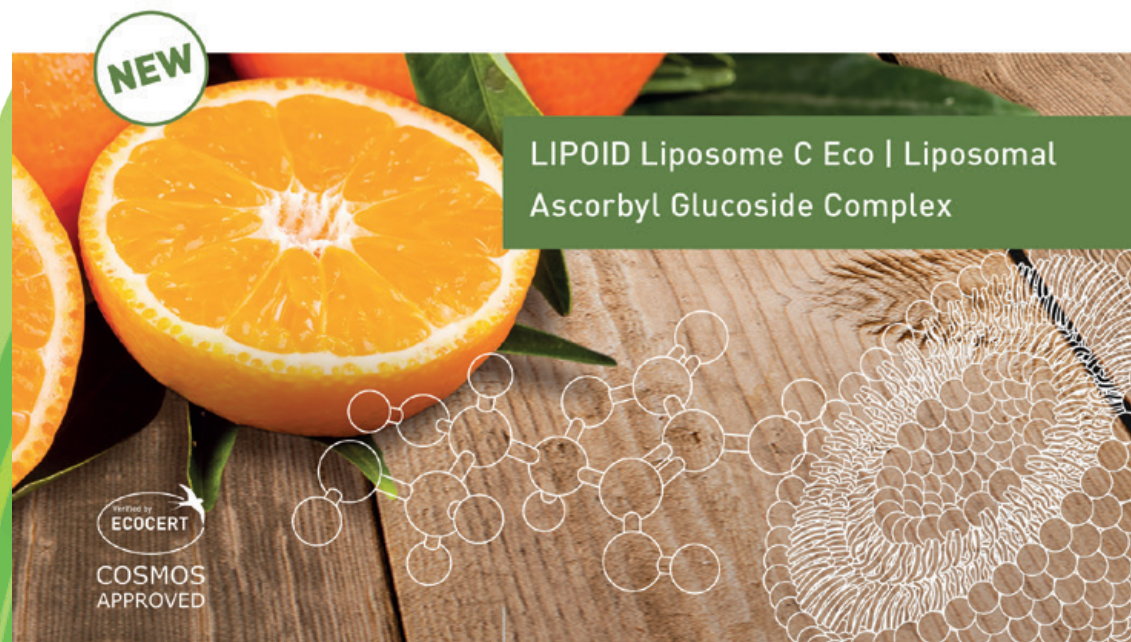
**Properties:** Appearance: slightly beige, slightly viscous, shiny lotion

pH value: approx. 6.5

Viscosity value: ~1400 mPas (Anton Paar ViscoQC 300-R Sp 5/100 rpm/25 °C)

Stability: Successfully passed internal stress test (6 weeks at 45 °C and 5 freeze-thaw cycles -18/+45 °C)

**Suppliers:** 1. Lipoid Kosmetik 2. Seppic 3. CP Kelco 4. Cosphatec 5. Evonik Dr. Straetmans 6. Henry Lamotte 7. Almond Oil 8. GreenTech 9. Frey & Lau



LIPOID Liposome C Eco | Liposomal Ascorbyl Glucoside Complex

- Can simply be added to any formulation
- Enhanced penetration of vitamin C into the skin
- Superior skin brightening & rejuvenation

We make beauty natural.