








Product Overview


































































































































CLR Product Groups

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Product

Page

Product group
 Vitalize stressed skin
 Calm inflamed skin
 Enhance the skin's own protective functions
 Stimulate skin's own regenerative functions
 Soothe sensitive and very dry skin
 Skin lightening
 Protect the skin against environmental stress
 Supply the skin with structural elements
 Restore a disturbed lipid barrier
 Moisturize dry skin
 Treat acne-prone skin and greasy hair
 Strengthen, treat and protect hair
 Prevent accelerated hair loss
 Solubility

Product	Page	Group	Vitalize stressed skin	Calm inflamed skin	Enhance the skin's own protective functions	Stimulate skin's own regenerative functions	Soothe sensitive and very dry skin	Skin lightening	Protect the skin against environmental stress	Supply the skin with structural elements	Restore a disturbed lipid barrier	Moisturize dry skin	Treat acne-prone skin and greasy hair	Strengthen, treat and protect hair	Prevent accelerated hair loss	Solubility
Aminodermin™ CLR	12															WS
Arnica Oil CLR	18	E · N 														OS
Avocado Oil CLR	18															OS
Belides™ EC	6	E · N 														WS
Biosulphur Fluid	12															WS
Calendula Oil CLR	18	E · N 														OS
Carrot Oil CLR	19															OS
Ceramide Complex CLR™ K	10															WS
Collagen CLR	7															WS
Curasan™	7															WS
Cutipure CLR™	13															WS
DayMoist CLR™	14	E · N 														WS
Elastin CLR	7															WS
Epicutin™ –TT	13	E · N 														wd
Folicusan™ DP	16															WS
Glycoderm™ (P)	15															WS
Hexaplant™ Richter	17															WS
Hygroplex™ HHG	15															WS
Lactokine™ Fluid PF	10															WS
Maricol S	8															WS
Modukine™	11	N 														WS
MPC™-Milk Peptide Complex	4	N 														WS
NanoLipid Restore CLR™	9															wd
PhytoDefense CLR™	11															OS
Phytodermin™	5															WS
Phytosan™ K	5															WS
ProBarrier™ CLR	9															wd
ProBioBalance CLR™ NP	9															WS
Repair Complex CLR™ PF	5															WS
Sedaplant™ Richter	17															WS
Solvit Richter NP	17															WS
St. John's Wort Oil CLR	19															OS
SyriCalm™ CLR (PC)	11	E · N 														WS
Vitamin F forte	15	E · N 														OS
Wheat Germ Oil CLR	19															OS
Yeast Complex B	13															WS

os: oil-soluble wd: water-dispersible ws: water-soluble

- (1) E : Conforms to the ECOCERT Natural and Organic Cosmetics standard. Current certification valid until 2012-12-31; to be renewed annually.
 (2) N : NATRUE-certified. Current certification valid until 2013-01-21; to be renewed every two years.
 Alternative preservation systems are available for some products.

General manufacturing and storage advice (unless otherwise noted):

Manufacturing advice

- Temperatures above 40°C (104°F) should be avoided.
- For all oil-soluble products we recommend the addition of an adequate antioxidant.
- Botanical oils to be included in the oily phase of emulsions.

Storage advice

- Store at a temperature between 15°C and 25°C (59°F–77°F).
- Stock in well-closed containers protected from light.
- Product packs should be fully used once opened.
- Stable for at least one year.

Efficient actives and concepts for cosmetics

CLR – Chemisches Laboratorium Dr. Kurt Richter GmbH – develops innovative and high-quality cosmetic actives for skin and hair care.

In the early 1950s CLR began to focus on the manufacture of biologically active cosmetic ingredients. Over the past 60 years, CLR has enriched beauty and personal care with many novel actives and pioneering concepts.

Specializing in the development of biologically active products, we use state-of-the-art methods and technology to ensure high-quality performance and create a stable foundation for future improvements. We constantly review our quality management system to match current requirements. Consequently we have introduced an integrated management system that combines both quality and environmental aspects in accordance with ISO 9001 and ISO 14001 standards.

It is our mission to supply the cosmetics industry with high-quality actives; we have a focus on the development of new products with scientifically proven effects and innovative concepts for their use. In cooperation with our customers we actively and efficiently work out creative, tailor-made cosmetic concepts that match their specific requirements. As a sign of our expertise we enjoy a first class worldwide reputation, maintain a good market position, and hold numerous international patents and protective rights.





Anti-Aging

MPC™–Milk Peptide Complex

in vivo	ex vivo	in vitro
<input checked="" type="checkbox"/> skin	<input type="checkbox"/>	<input checked="" type="checkbox"/>



MPC™–Milk Peptide Complex contains a complex of activated natural signaling molecules derived from milk, such as TGF- β , for regenerative care of mature skin. MPC™ reduces the visible signs of aging by inducing the production of extracellular matrix molecules in the dermis, such as collagen type 1, hyaluronic acid and fibronectin, making the skin firmer and improving its elasticity. In addition, MPC™ quickly and effectively reduces wrinkle depth and enhances the overall structure of the skin. Also available encapsulated in plant-derived liposomes as **MPC™-Liposomes**.

MPC™–Milk Peptide Complex is a white powder, which is soluble in water but will give a solution which is slightly turbid. When processing MPC™, the product should be dissolved in a buffered part of the water phase within the recommended pH range.

Dosage: 0.5%
pH range: 6.0–7.0
INCI Name: Whey Protein

MPC™-Liposomes is preserved with phenoxyethanol and dehydracetic acid (Na salt).

MPC™–Milk Peptide Complex is unpreserved.

NATRUE-certified⁽²⁾

Phytodermin™

in vivo	ex vivo	in vitro
<input checked="" type="checkbox"/> skin	<input type="checkbox"/>	<input type="checkbox"/>



Phytodermin™ contains solubilized, high molecular weight constituents of the plant matrix from organic soybeans (GMO-free) in their natural distribution. It restores the physiological balance in stressed and mature skin.

Phytodermin™ is a yellowish, slightly turbid, aqueous liquid. If water is added or if the product is diluted in an aqueous system, a turbid, whitish solution results. This phenomenon does not affect the activity of Phytodermin™. When formulating preparations with Phytodermin™, it must be noted that electrolyte-sensitive raw materials might be influenced. However, the addition of small amounts of complexing agents stabilizes the formulation.

Dosage: 5.0–10.0%
pH range: 4.0–6.8

INCI Name:

Glycine Soja (Soybean) Protein

Phytodermin™ is preserved with phenoxyethanol and parabens.

Phytosan™ K

in vivo	ex vivo	in vitro
<input checked="" type="checkbox"/> skin	<input type="checkbox"/>	<input checked="" type="checkbox"/>



Phytosan™ K contains proteins, glycoproteins, and polysaccharides isolated from organic soybeans (GMO-free), counteracting biological and UV-induced premature aging of the skin. Phytosan™ K protects the skin from UV-induced energy loss and stimulates skin regenerative functions. Thus, it improves skin firmness and reduces roughness and wrinkle depth of the skin. In addition, Phytosan™ K significantly reduces UV-induced damage in the nuclear DNA of epidermal stem cells and keratinocytes.

Phytosan™ K is a yellowish, transparent, aqueous solution. When using Phytosan™ K it must be noted that electrolyte-sensitive raw materials of formulations might be influenced. However, the addition of small amounts of a complexing agent can stabilize the formulation.

Dosage: 2.0–5.0%
pH range: 3.0–7.5

INCI Name:

Water, Glycerin, Glycine Soja (Soybean) Seed Extract

Phytosan™ K is preserved with phenoxyethanol and potassium sorbate.

Repair Complex CLR™ PF

in vivo	ex vivo	in vitro
<input checked="" type="checkbox"/> skin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



Repair Complex CLR™ PF is a lysate of bifidobacteria consisting of bacteria metabolism products, cytoplasm fractions, and cell wall components. It potently protects against UV-induced damage in the skin by showing strong anti-immunosuppressive activity and increasing DNA repair.

Repair Complex CLR™ PF is a yellowish-white, turbid liquid. It is miscible with water and water/ethanol mixtures but will not give a clear solution. To prevent flocculation, the maximum alcohol content in formulations with Repair Complex CLR™ PF is 50% w/w.

Dosage: 5.0–10.0%
pH range: 3.8–7.0

INCI Name:

Bifida Ferment Lysate

Repair Complex CLR™ PF is preserved with phenoxyethanol and sodium benzoate.



Preventive Care

Belides™ EC

in vivo	ex vivo	in vitro
<input checked="" type="checkbox"/> skin	<input type="checkbox"/>	<input checked="" type="checkbox"/>



Belides™ EC is a skin-lightening agent derived from daisy flowers (*Bellis perennis*). Its action is based on a reduction of melanin activity, it provides even pigmentation and makes age spots less visible. Belides™ EC influences various pathways involved in melanogenesis. By decreasing the production of Endothelin-1 (ET-1) Belides™ EC reduces the UV-stimulated induction of melanin biosynthesis. In addition, the binding affinity of melanocyte-stimulating hormone (α -MSH) to its receptor and tyrosinase activity are both down regulated. Lastly melanosome transfer to keratinocytes through endocytosis is reduced.

Belides™ EC is a translucent, cognac-colored, aqueous liquid, incompatible with alcohol.

Dosage: 2.0–5.0%

pH range: 4.5–6.5

INCI Name: Bellis Perennis (Daisy) Flower Extract

Available as

Belides™ NP, stabilized with small amounts of ethanol, phenethylalcohol, glycerin and *Melissa officinalis* *

Belides™ EC, stabilized with phenethyl alcohol*

*Does not contain any preservatives as listed in EU Cosmetic Directive 76/768/EEC, Annex VI, Part 1.

Belides™ EC conforms to the ECOCERT Natural and Organic Cosmetics standard⁽¹⁾ and is NATRUE-certified⁽²⁾

Collagen CLR

in vivo ex vivo in vitro



Collagen CLR is a native, soluble collagen in its undamaged structure identical to that found in nature. Collagen CLR nurtures dry and mature skin, and protects the skin from environmental influences. The high water-binding capacity of Collagen CLR makes skin smooth and supple. The product improves the bio-mechanical properties of the skin.

Collagen CLR is a light, slightly opaque liquid. Alcohol concentrations exceeding 15% w/w may lead to denaturation of collagen fibers and should therefore be avoided.

Available in 1% collagen concentration.

Also available as **Maricol S**, collagen of marine origin (page 8).

Dosage: 3.0–10.0%
pH range: 3.7–6.5
INCI Name: Soluble Collagen

Collagen CLR is preserved with phenoxyethanol and parabens.

Curasan™

in vivo skin ex vivo in vitro



Curasan™ is a synergistic system containing chitosan, tocopheryl acetate, ethyl panthenol (provitamin B5) and phytantriol. It forms a non-occlusive protective film thanks to chitosan, with an affinity for the keratin of stratum corneum corneocytes and the keratin cortex of the hair. Curasan™ is a polyvalent active for both skin and hair care. Curasan™ is especially designed for application to dry, thin, and structurally damaged hair; it also smoothes rough and fissured skin by forming a protective film.

Curasan™ is a yellowish, viscous, and slightly turbid liquid. It is miscible with water, but gives no clear solutions. The product yields clear surfactant solutions at a pH of 5.4 (adjusted with lactic acid or glycolic acid). It is incompatible with alcohol, citrates, and tartrates.

Dosage: 2.0–5.0%
pH range: 5.0–5.8

INCI Name:
Water, Decyl Glucoside, Panthenyl Ethyl Ether, Glyceril Laurate, Tocopheryl Acetate, Phytantriol, Lactic Acid, Chitosan

Curasan™ is preserved with phenoxyethanol and sodium benzoate.

Elastin CLR

in vivo ex vivo in vitro



Elastin CLR is partially hydrolyzed elastin with typical elastin-like protein structures (α -elastin). It protects against loss of elasticity and moisture and is suitable for the regenerative care of mature skin.

Elastin CLR is a yellowish, clear liquid. It is clearly soluble in water, water-alcohol mixtures, and alcohol. During heating, turbidity may occur (pH-dependent) which is caused by a reassociation of the α -elastin to fibers (coacervation). This process is reversible by cooling down.

Dosage: 5.0–10.0%
pH range: 3.0–10.0
INCI Name: Hydrolyzed Elastin

Elastin CLR is preserved with sodium benzoate.



Preventive Care

Maricol S

in vivo	ex vivo	in vitro
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Maricol S is a native soluble collagen of marine origin, derived from tuna skin. Due to its film-forming and skin-protective properties, Maricol S is especially suitable for preventive care of dry and mature skin, as well as skin stressed by negative influences of the environment.

Maricol S is a clear, colorless and almost odorless viscous liquid. Alcohol may lead to denaturation of collagen fibers and should therefore be avoided.

Dosage: 3.0–10.0%
pH range: 4.5–6.5
INCI Name: Soluble Collagen

Available as
Maricol CLR, preserved with phenoxyethanol and parabens

Maricol S, preserved with sodium benzoate

NanoLipid Restore CLR™

in vivo skin ex vivo in vitro



NanoLipid Restore CLR™ is a liquid suspension of solid lipid nanoparticles containing 27% black current seed oil, which is rich in free essential fatty acids, such as ω -3 and ω -6 fatty acids.

The Nanostructured Lipid Carriers (NLC) technology enables the controlled release of the encapsulated active and at the same time protects against oxidation. NanoLipid Restore CLR™ forms a film on the skin due to its physical properties, thus providing an excellent skin feeling. It is designed for regenerative care of dry, rough, scaly, and aged skin.

NanoLipid Restore CLR™ is a white to light yellow, liquid lipid particle dispersion which is miscible with water.

Although the fatty acids contained in NanoLipid Restore CLR™ are protected from oxidation, we recommend the addition of a suitable antioxidant to the cosmetic preparation for stability.

Dosage: 5.0%
pH range: 4.5–7.5

INCI Name:

Water, Ribes Nigrum (Black Currant) Seed Oil, Copernicia Cerifera (Carnauba) Wax, Decyl Glucoside

NanoLipid Restore CLR™ is stabilized with pentyleneglycol and does not contain any preservatives as listed in EU Cosmetic Directive 76/768/EEC, Annex VI, Part 1.

ProBarrier™ CLR

in vivo skin ex vivo in vitro



ProBarrier™ CLR is a suspension of waxy particles based on caprylic/capric triglycerides and *Copernicia cerifera* (carnauba) wax.

ProBarrier™ CLR creates a persistent, but non-occlusive film on the skin. An extra layer of protection against climatological influences. The active gives an excellent light skin feel and strongly protects skin against low temperatures.

ProBarrier™ CLR is a white to light-beige, liquid lipid particle dispersion, miscible with water. This active is designed for O/W formulations and gels intended for skin protection. It should be added to the finished formulation at a temperature below 40°C (104°F).

Dosage: 3.0%
pH range: 4.5–7.5

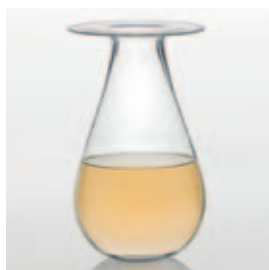
INCI Name:

Water, Caprylic/Capric Triglyceride, Copernicia Cerifera (Carnauba) Wax, Decyl Glucoside, Pentyleneglycol

ProBarrier™ CLR is stabilized with pentyleneglycol and does not contain any preservatives as listed in EU Cosmetic Directive 76/768/EEC, Annex VI, Part 1.

ProBioBalance CLR™ NP

in vivo skin ex vivo in vitro



ProBioBalance CLR™ NP consists of probiotic bifido cultures, suspended and disintegrated in a biologically active milk-based matrix, and transfers the probiotic food concept to the cosmetic field. The active assists the body's own immune system in re-establishing itself and protects the skin against environmental stress due to its anti-inflammatory properties. In addition ProBioBalance CLR™ NP supplies the skin cells with nutritive elements from milk.

ProBioBalance CLR™ NP is a slightly yellowish, opaque solution and clearly miscible with water. The use of alcohol in water-based formulations should not exceed 20% w/w.

Dosage: 2.0–5.0%
pH range: 5.8–7.0

INCI Name:

Water, Lactose, Milk Protein, Bifida Ferment Lysate

Available as **ProBioBalance CLR™**, preserved with phenoxyethanol, methylparaben and dehydracetic acid (Na salt)

ProBioBalance CLR™ NP, stabilized with phenethyl alcohol

Other active ingredients for preventive care:

Ceramide Complex CLR™ K (p. 10), Phytosan™ K (p. 5)



Sensitive & Problem Skin

Ceramide Complex CLR™ K

in vivo ex vivo in vitro



Ceramide Complex CLR™ K contains lipids in lamellar liquid-crystalline form. The plant-derived lipid mixture consists of phospholipids and sphingolipids. The product supplies dry and chapped skin with structural elements and helps to build up the lipid barrier of the horny layer of the epidermis.

Ceramide Complex CLR™ K is an opalescent suspension. Avoid high-shear mixing, as this may partially destroy the lamellar structure.

Storage temperature: 10–20°C (50–68°F).

Dosage: 5.0–10.0%
pH range: 3.0–10.0

INCI Name:
Water, Phospholipids, Sphingolipids

Ceramide Complex CLR™ K is preserved with phenoxyethanol and potassium sorbate.

Lactokine™ Fluid PF

in vivo skin ex vivo in vitro



Lactokine™ Fluid PF contains a network of activated and stabilized signal molecules derived from milk which stimulates the skin's own protection system. It is designed for the regenerative and soothing care of stressed skin. Due to its anti-inflammatory properties, Lactokine™ Fluid PF is particularly suitable for after-sun, after-shave, and baby care products.

Lactokine™ Fluid PF is a slightly yellowish, aqueous liquid. The use of alcohol in alcohol-water mixtures should not exceed 20% w/w.

Dosage: 2.0–5.0%
pH range: 5.8–7.0
INCI Name: Milk Protein

Lactokine™ Fluid PF is preserved with phenoxyethanol and dehydracetic acid (Na salt).

Modukine™

in vivo skin ex vivo in vitro



Modukine™ contains biologically active milk polypeptides for the effective regenerative care of sensitive and extremely dry skin. The product has shown highly beneficial effects with atopic skin. It acts strongly against inflammatory skin conditions and helps to restore an imbalanced lipid barrier.

Modukine™ is a white, water-soluble powder, which yields no clear solutions with water. When processing Modukine™, it should be dissolved in a buffered part of the water phase at the pH range recommended by us.

Dosage: 0.5%
pH range: 6.0–7.0
INCI Name: Lactose, Milk Protein

Modukine™ is unpreserved.

NATRUE-certified⁽²⁾

PhytoDefense CLR™

in vivo skin ex vivo in vitro



PhytoDefense CLR™ is a lipophilic active based on southern magnolia (*Magnolia grandiflora*).

PhytoDefense CLR™ is a tailor-made active ingredient for pre- and post-treatments of sensitive skin. It strongly and positively influences the most important features of sensitive skin, neurogenic inflammation and mechanical stress-induced erythema.

PhytoDefense CLR™ is a yellowish, oily liquid with a weak specific odor. It should be added to the finished formulation at a temperature below 40°C (104°F).

Dosage: 3.0%
pH range: 4.0–7.0

INCI Name: Glycine Soja (Soybean) Oil, Dicaprylyl Ether, Magnolia Grandiflora Bark Extract, Lauryl Alcohol

PhytoDefense CLR™ is stabilized with a natural rosemary extract concentrate as antioxidant.

SyriCalm™ CLR (PC)

in vivo skin ex vivo in vitro



SyriCalm™ is derived from natural sources and helps to reduce inflammation and keep inflammation under control. The product has barrier repair and barrier maintenance functions.

SyriCalm™ is designed to be used where the skin is challenged by environmental stress, shaving, depilation, or daily hygiene. It helps the skin recover its natural balance and is perfect for a wide range of applications, such as daily protection, after-sun treatment and baby care.

SyriCalm™ is a yellow-brownish transparent liquid with weak characteristic odor.

Dosage: 3.0%
pH range: 3.0–8.0

INCI Name:
SyriCalm™ CLR (PC)
Water, Phragmites Communis Extract, Poria Cocos Extract
SyriCalm™ CLR
Water, Phragmites Kharka Extract, Poria Cocos Extract

SyriCalm™ is preserved with sodium benzoate.

Conforms to the **ECOCERT** Natural and Organic Cosmetics standard⁽¹⁾

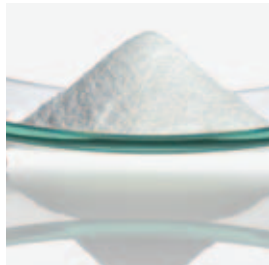
NATRUE-certified⁽²⁾



Combination Skin

Aminodermin™ CLR

in vivo ex vivo in vitro



Aminodermin™ CLR contains the sulfur-containing amino acids methionine, cysteine, and tryptophan. The product potently modulates sebum production in the skin, making it especially suitable in dealing with oily skin and hair, improving the structural properties, feel, and look of both.

Aminodermin™ CLR is a white powder and soluble in water up to 0.5% and soluble up to 0.3% in water-alcohol mixtures with 40% w/w alcohol.

Dosage: 0.01–0.2%
pH range: 3.0–10.0
INCI Name:
 Methionine, Cysteine,
 Tryptophan

Aminodermin™ CLR
 is unpreserved.

Biosulphur Fluid

in vivo ex vivo in vitro



Biosulphur Fluid contains sulfur adsorbed onto a non-ionic hydrophilic unsaturated fatty acid derivative.

The product is a sebum modulator with triple effectiveness for problem skin thanks to its antibacterial, anti-inflammatory, and sebum-regulating properties.

Biosulphur Fluid is a dark brown, viscous product. It is soluble in water, alcoholwater mixtures, and alcohol, as well as miscible with surfactants.

Dosage: 0.1–2.0%
pH range: 3.0–10.0
INCI Name:
 Polysorbate 80, Sulfur

Biosulphur Fluid
 is unpreserved.

Cutipure CLR™

in vivo ex vivo in vitro
 skin



Cutipure CLR™ is a synergistic, polyvalent emulsion, containing actives from chaulmoogra oil, black cumin oil, manuka oil, and magnolia bark. The active has strong anti-inflammatory and anti-bacterial properties. Cutipure CLR™ reduces pimples, pustules, and comedones. It also down-regulates sebum production.

Cutipure CLR™ is a white to light yellow, turbid liquid and miscible with water. The use of alcohol in formulations should not exceed 10% w/w. No incompatibilities are to be expected when combining Cutipure CLR™ with salicylic acid, vitamin C, or benzoyl peroxide.

Dosage: 3.0%
pH range: 3.0–8.0

INCI Name:

Water, Taraktogenos Kurzii Seed Oil, Nigella Sativa Seed Oil, Leptospermum Scoparium Branch/Leaf Oil, Potassium Lauroyl Wheat Amino Acids, Palm Glycerides, Capryloyl Glycine, Magnolia Grandiflora Bark Extract

Cutipure CLR™ is preserved with phenoxyethanol.

Epicutin™-TT

in vivo ex vivo in vitro
 skin



Epicutin™-TT is a cyclodextrin tea tree oil complex. Encapsulation using cyclodextrins protects the tea tree oil against oxidation and increases its bioavailability. Due to its slow and controlled release on the skin, even low concentrations of tea tree oil complex are effective, and formulations with Epicutin™-TT are relatively low in odor. The active reduces comedones and pimples as well as sebum production.

Epicutin™-TT is a white powder, which contains 10% tea tree oil and is suspendible, but not soluble in water.

Epicutin™-TT should be pre-suspended in a buffered part of the aqueous phase at the pH range recommended by us.

Dosage: 5.0–10.0%
pH range: 4.5–5.5

INCI Name:

Cyclodextrin, Melaleuca Alternifolia (Tea Tree) Leaf Oil

Epicutin™-TT

is unpreserved.

Conforms to the **ECOCERT** Natural and Organic Cosmetics standard⁽¹⁾

NATRUE-certified⁽²⁾

Yeast Complex B

in vivo ex vivo in vitro
 skin



Yeast Complex B is a unique composition of organic yeast extract and thiamin (vitamin B1) and pyridoxine (vitamin B6), based on an aqueous alcohol medium, where the alcohol is of organic origin. It reduces sebum production by multiple interactions. Yeast Complex B is intended for application to scalps and skin with excessive secretion of sebum, i.e., greasy hair and oily skin with a poor complexion.

Yeast Complex B is a dark brown solution. It is soluble in water and water-alcohol mixtures. The alcohol concentration in a finished formulation should not exceed 70% w/w.

Dosage: Skin 2.0%
Hair 0.5%

pH range: 4.5–6.5

INCI Name:

Water, Alcohol, Yeast Extract, Thiamine HCl, Pyridoxine HCl

Yeast Complex B

is unpreserved.



Moisturizers

DayMoist CLR™

in vivo	ex vivo	in vitro
<input checked="" type="checkbox"/> skin	<input checked="" type="checkbox"/> hair	<input type="checkbox"/>



DayMoist CLR™ is a complex of natural plant-derived active ingredients potently supporting the Natural Moisturizing Factors (NMF) in arranging a high level of hydration in the stratum corneum. DayMoist CLR™ has an immediate and long-lasting effect. Just one single application of a cosmetic formulation containing 3.0–5.0% DayMoist CLR™ improves the hydration level of the upper layers of the skin, a fast-acting effect which lasts for at least 24 hours. Just 1.0% of DayMoist CLR™ leads to a significant moisturization for at least 8 hours.

The moisturizing properties of DayMoist CLR™ have been proven objectively and reliably by a combination of two *in vivo* technologies: Confocal Raman Microspectroscopy and Corneometry.

DayMoist CLR™ also moisturizes hair, improving hair condition and protecting against heat stress and color fading.

In addition to its beneficial effect on the properties of skin and hair, DayMoist CLR™, when formulated in skin care formulations, gives great skin feel.

DayMoist CLR™ is a clear and colorless liquid, which is miscible with water. The use of alcohol in formulations should not exceed 50% w/w. When formulating it should be noted that electrolyte-sensitive ingredients might lose some of their efficacy when DayMoist CLR™ is added.

Dosage: 1.0–5.0%
pH range: 3.0–10.0

INCI Name:

Water, Hydrolyzed Corn Starch, Beta Vulgaris (Beet) Root Extract

DayMoist CLR™ is stabilized with plant-derived anisic acid and does not contain any preservatives as listed in EU Cosmetic Directive 76/768/EEC, Annex VI, Part 1.

Conforms to the **ECOCERT** Natural and Organic Cosmetics standard⁽¹⁾

NATRUE-certified⁽²⁾

Glycoderm™ (P)

in vivo skin ex vivo in vitro



Glycoderm™ (P) is a polyvalent, strongly effective moisturizer with a liposomal structure. It helps to restore a damaged lipid barrier and supplies the skin with Natural Moisturizing Factors (NMF). The plant-derived liposomal bilayers entrap biotechnologically produced hyaluronic acid and natural blossom honey.

Glycoderm™ (P) is an ivory-colored, opaque dispersion and miscible with water. Avoid high-shear mixing, which may partially destroy the liposomes. Storage temperature: 4–8°C (39–46°F).

Dosage: 3.0–5.0%
pH range: 3.0–10.0

INCI Name:

Water, Honey, Phospholipids, Sphingolipids, Hyaluronic Acid

Glycoderm™ (P) is preserved with phenoxyethanol and dehydracetic acid (Na salt).

Hygroplex™ HHG

in vivo skin ex vivo hair in vitro



Hygroplex™ HHG is a physiological moisturizer adapted to the water-binding capacity of human skin, containing ingredients similar to the Natural Moisturizing Factors (NMF) in the skin: mono- and disaccharides, combined with amino acids and urea. Typically suitable for daily skin care, moisturizing and smoothing the skin. In addition, Hygroplex™ HHG moisturizes the hair, increasing its water content and elasticity.

Also available as **Hygroplex™ WHN** without hexyl nicotinate.

Hygroplex™ HHG is a clear, light yellow, aqueous solution. The alcohol concentration in a finished formulation should not exceed 60% w/w.

Dosage: Skin: 2.0–5.0%
Hair: 1.0%
pH range: 3.0–10.0

INCI Name:

Hexylene Glycol, Fructose, Glucose, Sucrose, Urea, Dextrin, Alanine, Glutamic Acid, Aspartic Acid, Hexyl Nicotinate

Hygroplex™ HHG is unpreserved.

Vitamin F forte

in vivo skin ex vivo hair in vitro



Vitamin F forte contains polyunsaturated essential free fatty acids, originating from safflower oil, with a particularly high content of linoleic acid in its natural form (C18:2; 9cis 12cis).

The product helps to restore the lipid barrier of the stratum corneum. In this way it effectively deals with dry and scaly skin. It also has beneficial properties in hair care; Vitamin F forte revitalizes hair, improving the hair condition and the combability. It greatly strengthens hair and prevents hair breakage, even after the hair has been stressed severely and repeatedly by hot flat-ironing.

Also available as **Vitamin F water-soluble CLR** in water-soluble form. In addition, essential fatty acids in ester form are available as **Vitamin F Ethyl Ester CLR** or **Vitamin F Glyceryl Ester CLR**.

Vitamin F forte is a yellowish, oily liquid. It is soluble in oils, fats and concentrated alcohols. Vitamin F forte dissolves in alcohol-water mixtures with a minimum alcohol concentration of 70% w/w. Due to its content of saturated fatty acids, Vitamin F forte shows turbidity at temperatures below approx. 16°C (60°F), which is reversed by gently raising the temperature. This process does not influence the quality of the product.

Storage temperature: 10–20°C (50–68°F).

Dosage: 0.5–3.0%
pH range: 3.0–10.0

INCI Name:

Linoleic Acid, Linolenic Acid

Vitamin F forte is stabilized with a natural tocopherol concentrate as antioxidant.

Conforms to the **ECOCERT** Natural and Organic Cosmetics standard⁽¹⁾

NATRUE-certified⁽²⁾



Hair Care

Follicusan™ DP

in vivo	ex vivo	in vitro
<input checked="" type="checkbox"/> hair	<input type="checkbox"/>	<input checked="" type="checkbox"/>



Follicusan™ DP contains biologically active signaling proteins, ethyl panthenol (provitamin B5), inositol, as well as acetyl cysteine and acetyl methionine, in a water-alcohol medium. The product vitalizes the cells of the scalp, including the hair follicles, and thus counteracts premature, accelerated hair loss (*alopecia*).

Follicusan™ DP is a whitish, opaque liquid and dissolves in water and —used at the recommended maximum concentration of 5%— dissolves in water-alcohol mixtures with a maximum alcohol content of 50% w/w. Within the pH range 3.5 to 5.8 the proteins in Follicusan™ DP may precipitate, therefore when formulating with Follicusan™ DP this pH range should be avoided.

Dosage: 3.0–5.0%
pH range: >5.8

INCI Name:

Water, Alcohol Denat., Panthenyl Ethyl Ether, Milk Protein, Lactose, Inositol, Acetyl Cysteine, Acetyl Methionine, Sodium Citrate, Citric Acid

Available as

Follicusan™, preserved with phenoxyethanol, methylparaben and dehydracetic acid (Na salt)

Follicusan™ DP, preserved with phenoxyethanol and dehydracetic acid (Na salt)

Hexaplant™ Richter

in vivo ex vivo in vitro



Hexaplant™ Richter contains extracts from the herbs fennel, hops, chamomile, balm mint, mistletoe, and yarrow. The product is especially designed for the care of dull hair and stressed scalp. Also suitable for skin care.

Hexaplant™ Richter is a dark brown liquid, which is miscible with water and alcohol-water mixtures with a maximum of 60% w/w alcohol.

Dosage: 2.0–5.0%
pH range: 3.0–10.0

INCI Name: Water, Alcohol, Foeniculum Vulgare (Fennel) Fruit Extract, Humulus Lupulus (Hops) Extract, Melissa Officinalis Leaf Extract, Viscum Album (Mistletoe) Leaf Extract, Chamomilla Recutita (Matricaria) Flower Extract, Achillea Millefolium Extract

Hexaplant™ Richter is unpreserved.

Sedaplant™ Richter

in vivo ex vivo in vitro



Sedaplant™ Richter is a polyvalent herbal extract of fennel, hops, melissa, mistletoe, chamomile, and yarrow, combined with urea and allantoin. Urea enhances the anti-irritating effect of the herbal extracts and possesses hydrating properties together with allantoin. Allantoin also helps to promote and maintain the health of intact skin. Protects dull hair and irritated scalp. Also suitable for the care of sensitive skin.

Sedaplant™ Richter is a dark brown liquid, which is miscible with water and alcohol-water mixtures with a maximum of 60% w/w alcohol.

Dosage: 2.0–5.0%
pH range: 3.0–10.0

INCI Name: Water, Alcohol, Foeniculum Vulgare (Fennel) Fruit Extract, Humulus Lupulus (Hops) Extract, Melissa Officinalis Leaf Extract, Viscum Album (Mistletoe) Leaf Extract, Chamomilla Recutita (Matricaria) Flower Extract, Achillea Millefolium Extract, Urea, Allantoin

Sedaplant™ Richter is unpreserved.

Soluvit Richter NP

in vivo ex vivo in vitro



Soluvit Richter NP is a multivitamin herbal complex, containing horse chestnut extract, vitamins A, E, F, H (biotin) and vitamins of the B group. For the care of dry, scaly skin and scalp, as well as slightly irritated skin.

Soluvit Richter NP is a yellow liquid. It is miscible with water, alcohol-water mixtures, and concentrated alcohol.

Dosage: 1.0–5.0%
pH range: 3.0–10.0

INCI Name: Water, Alcohol, PEG-35 Castor Oil, Polysorbate 20, Aesculus Hippocastanum (Horse Chestnut) Seed Extract, Retinyl Palmitate, Tocopherol, Inositol, Calcium Pantothenate, Linoleic Acid, Biotin

Soluvit Richter NP is unpreserved.

Other active ingredients for hair care:

Aminodermin™ CLR (p. 12), Biosulphur Fluid (p. 12), Curasan™ (p. 7), DayMoist CLR™ (p. 14), Hygroplex™ HHG (p. 15), Vitamin F forte (p. 15), Yeast Complex B (p. 13)



Botanical Oils

Arnica Oil CLR



Arnica Oil CLR contains the lipophilic ingredients and aromas of arnica flowers in a soy oil medium. Arnica Oil CLR soothes and protects dry and sensitive skin and scalp.

Dosage: 3.0–10.0%

INCI Name:

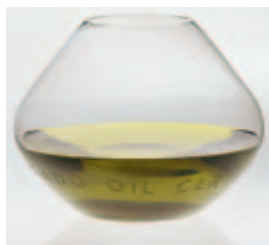
Glycine Soja (Soybean) Oil,
Arnica Montana Flower Extract,
Tocopherol

Stabilized with a natural tocopherol concentrate as antioxidant.

Conforms to the **ECOCERT**
Natural and Organic Cosmetics
standard⁽¹⁾

NATRUE-certified⁽²⁾

Avocado Oil CLR



Avocado oil is one of the most valuable of the unsaturated fatty acids. It is known for its high saponification value and its vitamin A, E and D content.

Avocado Oil CLR is suitable for the protective care of dry, scaly skin and scalp. Avocado Oil CLR leaves a pleasant, non-oily feeling on the skin.

Dosage: 5.0–10.0%

INCI Name:

Persea Gratissima (Avocado) Oil

Stabilized with a natural tocopherol concentrate as antioxidant.

Calendula Oil CLR



Calendula Oil CLR contains the lipophilic ingredients and aromas of calendula flowers in a soy oil medium. It protects dry, scaly, and stressed skin and is thus suitable for the protective care of sensitive skin, e.g., babies' skin.

Also available as **Organic Calendula Oil CLR**, which is based on organic calendula blossoms and organic soy oil in the sense of EEC Regulation 2092/91 on organic production of agricultural products.

Dosage: 3.0–10.0%

INCI Name:

Glycine Soja (Soybean) Oil,
Calendula Officinalis Flower
Extract, Tocopherol

Stabilized with a natural tocopherol concentrate as antioxidant.

Conforms to the **ECOCERT**
Natural and Organic Cosmetics
standard⁽¹⁾

NATRUE-certified⁽²⁾

Carrot Oil CLR



Carrot Oil CLR is a soy oil-based carrot extract, enriched and standardized with provitamin A to 3,300 IU/g. Provitamin A is metabolized in the skin to form retinal. For this reason, Carrot Oil CLR is suitable for the regenerative care of dry, stressed skin and scalp.

Dosage: 0.5–5.0%

INCI Name:

Glycine Soja (Soybean) Oil, Daucus Carota Sativa (Carrot) Root Extract, Beta-Carotene, Tocopherol

Stabilized with a natural tocopherol concentrate as antioxidant.

St. John's Wort Oil CLR



Contains the lipophilic components of the aerial parts of the St. John's Wort plant, collected when in blossom. Active ingredients from St. John's Wort in an olive oil matrix. Suitable for the care of damaged, sensitive skin.

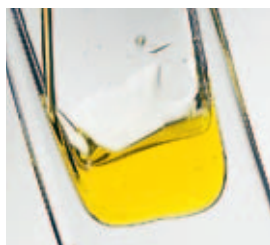
Dosage: 2.0–10.0%

INCI Name:

Olea Europaea (Olive) Fruit Oil, Hypericum Perforatum Flower/Leaf/Stem Extract (and) Tocopherol;
[INCI-listed as HYPERICUM OIL CLR]

Stabilized with a natural tocopherol concentrate as antioxidant.

Wheat Germ Oil CLR



The oil from fresh-milled wheat germs is well known to contain high amounts of vitamin E, linoleic, and linolenic acid. Wheat Germ Oil CLR is suitable for preventive and conditioning care of the skin and hair.

Dosage: 2.0–5.0%

INCI Name: Triticum Vulgare (Wheat) Germ Oil

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