

CLR Formulation Concepts

Scalp Balancing Lotion OW

Healthy hair starts with a healthy scalp. Our scalp is constantly challenged by pollution, UV light, climate, (chemical) stress and hair styling. It needs help from protective, balancing and soothing ingredients to stay in balance. Using haircare products with postbiotics regulates the scalp, including its microflora. A balanced bacteria microbiome means a healthy scalp and vice versa.

ProRenew Complex CLR™ works in synergy with **CutiBiome CLR™** in re-balancing the scalp microbiota. CutiBiome CLR™ effectively soothes scalp and noticeably reduces itch for more comfort. It potently fights scalp oiliness and dandruff. ProRenew Complex CLR™ improves the condition of the scalp, makes scalp tangibly healthier and reduces attributes related to dryness of the scalp.

Directions for use:

Take a pea-sized amount and gently massage into the scalp..



Featured Products

CutiBiome CLR™ – Calibrating the scalp's ecosystem



CutiBiome CLR™ is a synergistic complex of lipophilic extracts from manuka, black pepper and magnolia. It provides essential support for the natural balance between skin and its microbiota in difficult situations, like acne and dandruff.

CutiBiome CLR™ was shown to reduce expression of 5α-reductase and the production of inflammatory mediators. *In vivo* studies showed potent reduction of dandruff. CutiBiome CLR™ supports the scalp microbiota to return to its normal healthy state, more effectively than Piroctone Olamine. It also outperforms this benchmark ingredient in reducing scalp oiliness, scalp sensitivity and itch.

Dosage: 1.5–3.0%

pH range: 4.0–7.0

INCI Name:

Octyldodecanol, Leptospermum Scoparium Branch/Leaf Oil, Piper Nigrum Seed Extract, Magnolia Officinalis Bark Extract

CutiBiome CLR™ is unpreserved.

ProRenew Complex CLR™ – Effective care for healthy scalp



ProRenew Complex CLR™ is a postbiotic ingredient based on *Lactococcus lactis*. Elaborate studies have shown that it has important benefits for both the health of the skin and the skin microbiome. Skin becomes less sensitive and more robust and the skin microbiome is supported strongly.

ProRenew Complex CLR™, even as part of shampoos, improves the condition of the scalp and makes it less oily. It additionally leads to perceivable reduction of the sensitivity of the scalp, makes scalp tangibly healthier and reduces attributes related to dryness of the scalp. ProRenew Complex CLR™ provides important support for the skin and the scalp, even from rinse-off formulations.

Dosage: 3.0%

pH range: 4.0–7.0

INCI Name:

Lactococcus Ferment Lysate

ProRenew Complex CLR™ is preserved with sodium benzoate.

Also available as

ProRenew Complex CLR™ NP, stabilized with phenylpropanol and levulinic acid/sodium levulinate.

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PHASE	TRADE NAME	INCI NAME	SUPPLIER	W/W %
A	Deionized Water	Water		ad 100
	Avicel PC 591	Microcrystalline Cellulose, Cellulose Gum	DuPont	1.00
	Keltrol T Plus	Xanthan Gum	CP Kelco	0.20
B	A-Leen 5	Pentylene Glycol	Minasolve	5.00
	ProRenew Complex CLR™	Lactococcus Ferment Lysate	CLR	3.00
	CutiBiome CLR™	Octyldodecanol, Leptospermum Scoparium Branch/Leaf Oil, Piper Nigrum Seed Extract, Magnolia Officinalis Bark Extract	CLR	1.50
C	NaOH (10%)	Water, Sodium Hydroxide		q.s.
D	Perfume Herbs	Fragrance	Voegele	0.10

Operating Instructions:

Mix A and homogenize until homogeneous. Add B in this order and homogenize again. Adjust pH value to 5.8-6 with C. Add D as desired.

Directions for use: Take a pea-sized amount and gently massage into the scalp.

The recommendations and formulations given are based on our knowledge and experience in the field of technical application. They are, to the best of our belief, correct, but are offered without obligation. Those who use our recommendations and formulations as well as those who process CLR Active Agents are themselves responsible for the adherence to prevailing statutory regulations and the observance of patent rights as well as other protective rights for other companies. This formula has been manufactured and stability-tested using a special preservative, but has not been subjected to microbiological challenge tests.

CLR

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