

## CLR Formulation Concepts

## Biome Friendly Scalp Toner OW

This formulation is characterized by its multifunctionality. It can be used for both the scalp and the face. The quick break effect changes the texture from milky to aqueous by rubbing into the skin.

**MultiMoist CLR™** deeply hydrates skin and scalp.

**CutiBiome CLR™** provides essential support for the natural balance between skin and its microbiota in difficult situations, like acne and dandruff.

**ProRenew Complex CLR™** protects the skin microbiota and supports it in dealing with day-to-day stress. It also improves the overall condition of the scalp and makes it less oily.

### Directions for use:

Apply on the scalp and gently massage into skin.



## Featured Products

### 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.

### 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.

## MultiMoist CLR™ – Mapping the moisturization puzzle



MultiMoist CLR™ activates production of the vitamin D receptor (VDR) and promotes the VDR's activation. MultiMoist CLR™ also potentiates the effect of vitamin D. As a consequence the skin becomes more moisturized. By making use of 5 different objective instrumental approaches, the immediate and long term moisturizing properties of MultiMoist CLR™ were convincingly proven. Additionally, the activity of MultiMoist CLR™ was proven in a consumer study, where the subjective improvement of skin moisture content, skin smoothness and the look of skin were confirmed.

MultiMoist CLR™ consists of a powerful synergistic blend of fructooligosaccharides and beta vulgaris (beet) root extract.

**Dosage:** 3.0%  
**pH range:** 3.0–8.0

**INCI Name:**  
Fructooligosaccharides, Beta Vulgaris (Beet) Root Extract, Water

**MultiMoist CLR™**  
is unpreserved.

## CLR Formulation

### Biome Friendly Scalp Toner OW

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PHASE	TRADE NAME	INCI NAME	SUPPLIER	W/W %
A	Deionized Water	Water		ad 100
	Pentylene Glycol	Pentylene Glycol	Cosnaderm	5.00
	Sepilife NUDE	Sodium Acrylate/Sodium Acryloyldimethyl, Taurate Copolymer, C15-19 Alkane, Polyglyceryl-6 Laurate, Polyglycerin-6	SEPPIC	2.80
B	CutiBiome CLR™	Octyldodecanol, Leptospermum Scoparium Branch/Leaf Oil, Piper Nigrum Seed Extract, Magnolia Officinalis Bark Extract	CLR	3.00
	MultiMoist CLR™	Fructooligosaccharides, Beta Vulgaris (Beet) Root Extract, Water	CLR	3.00
	ProRenew Complex CLR™	Lactococcus Ferment Lysate	CLR	3.00
C	NaOH (32%)	Water, Sodium Hydroxide		q.s.
D	Perfume Refreshing Matcha	Fragrance	Voegelé	0.25

#### Operating Instructions:

Mix A and stir until homogeneous. Add B in this order and adjust pH value to 6 with C, if necessary. Add D as desired.

**Directions for use:** Apply on the scalp and gently massage into skin.

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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