

## CLR Formulation Concepts

# Pure Balance Day Care OW

This light cream is the ideal care for stressed skin. **CutiBiome CLR** provides a goal-oriented solution for oily and acne-prone skin. It supports skin in regaining the natural balance with its microbiota and perceivably reduces sebum. **ProRenew Complex CLR™** works in synergy with CutiBiome CLR in re-balancing the skin microbiota. It actively promotes desquamation, the shedding of dead skin cells – an important feature in formulations for acne skin. **MultiMoist CLR™** is a smart moisturizer instantly protecting skin from drying out.



**Directions for use:** Apply to the face and massage gently.

## Featured Products



### CutiBiome CLR – Calibrating the skin'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 reduces the film forming activity and significantly inhibits the growth of virulent phylotypes of Cutibacterium acnes. It strongly reduces inflammation involved in acne and dandruff. Sebum, comedones, pustules and pimples are reduced dramatically, as was confirmed by instrumental determinations and the volunteers themselves. Other *in vivo* studies showed potent reduction of dandruff. 4 weeks of 3 times weekly use of a hair tonic with CutiBiome CLR lead to similar results to Piroctone Olamine, but clearly outperformed it in reducing scalp oiliness, 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



### 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



## ProRenew Complex CLR™ – Probiotic approach to skin aging

Based on probiotic technology, ProRenew Complex CLR™ acts on essential features in the aging process of the skin, its ability to both successfully adapt to its constantly changing environment and effectively renew itself.

**Dosage:** 3.0%  
**pH range:** 4.0–7.0

**INCI Name:**  
Lactococcus Ferment Lysate

ProRenew Complex CLR™ positively influences the speed and quality of epidermal growth. It has shown to effectively promote desquamation, the shedding of dead cells. ProRenew Complex CLR™ is beneficial for both the health of skin and the skin microbiota. It balances and protects the skin microbiota and supports it in dealing with day-to-day stress.

### CLR Formulation

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PHASE	TRADE NAME	INCI NAME	SUPPLIER	W/W %
A	DEIONIZED WATER	WATER		ad 100
B	EUMULGIN SG	SODIUM STEAROYL GLUTAMATE	BASF	0.50
	LANETTE O	CETEARYL ALCOHOL	BASF	1.50
	CUTINA GMS-V	GLYCERYL STEARATE	BASF	2.00
	CUTINA HVG	HYDROGENATED VEGETABLE GLYCERIDES	BASF	1.50
	CETIOL CC	DICAPRYLYL CARBONATE	BASF	6.00
	MYRITOL 318	CAPRYLIC/CAPRIC TRIGLYCERIDE	BASF	6.00
	RHEOCARE XGN	XANTHAN GUM	BASF	0.30
	CUTIBIOME CLR	OCTYLDODECANOL, LEPTOSPERMUM SCOPARIUM BRANCH/LEAF OIL, PIPER NIGRUM SEED EXTRACT, MAGNOLIA OFFICINALIS BARK EXTRACT	CLR	3.00
C	PRORENEW COMPLEX CLR™	LACTOCOCCUS FERMENT LYSATE	CLR	3.00
	MULTIMOIST CLR™	FRUCTOOLIGOSACCHARIDES, BETA VULGARIS (BEET) ROOT EXTRACT, WATER	CLR	3.00
	MICROCARE SB	WATER, SODIUM BENZOATE, POTASSIUM SORBATE	THOR	0.80
	AROMATIC POMEGRANATE EXTRACT	PUNICA GRANATUM FRUIT EXTRACT	CARRUBBA INC.	0.20
D	LACTIC ACID (80%)	LACTIC ACID, WATER		q.s.

**Manufacture:** Mix A and B separately and heat up to 80°C. Add A to B and homogenize for 2 minutes. Cool down under stirring. Add C, in this order, and homogenize again for a short moment. Adjust pH value to 5.5 with D.

**Directions for use:** Apply on face and massage gently.

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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