

## CLR Formulation Concepts

### Skin Renewal Serum pH 3

When you get older, the even skin tone becomes more irregular and skin renewal is slowed down. The **Skin Renewal Serum pH 3** contains mandelic acid, which gently exfoliates the skin and prepares it to perfectly absorb two active ingredients that visibly improve the appearance of your skin and give you a bright radiant and youthful look.

**CutiGuard CLR™** protects the skin cells from the main three influences on skin aging: external stress, internal stress and time. It reduces wrinkles and improves skin color evenness. **ProRenew Complex CLR™** works from the 'bottom up' and supports the biological mechanisms inside the skin which are responsible for its renewal processes.

**Directions for use:** Saturate a cotton pad with the serum. Sweep across face, neck and décolletage, avoiding the eye area. Always use SPF and limit sun exposure after using this product.



## Featured Products

### CutiGuard CLR™ – Your Personal Guard



Based on the extremophile red alga *Galdieria sulphuraria*, CutiGuard CLR™ constitutes a refined approach to the first signs of skin aging. It transfers the adaptivity and resilience of *Galdieria sulphuraria* to a highly effective, natural active ingredient that protects the skin in stressful environments.

Skin aging starts in the skin cells, which, during a lifetime, accumulate damage. Extrinsic and intrinsic factors add damage, leading to prolonged inflammation and cell senescence. CutiGuard CLR™ reduces the number of senescent cells and associated inflammatory and destructive mediators which lead to visible skin aging. It thus protects skin against premature aging. CutiGuard CLR™ also reduces wrinkles and significantly improves skin smoothness as well as the evenness of skin color – three crucial factors for a healthy and young appearance.

With its proactive and preventive approach, CutiGuard CLR™ is extremely suitable for modern aging consumers. It slows down the skin aging process and helps to avoid the development of the first signs of skin aging.

**Dosage:** 3.0%  
**pH range:** 3.0–9.0

**INCI Name:**  
Betaine, Sucrose, Hydrolyzed Rhodophyceae Extract, Water

**CutiGuard CLR™** is unpreserved.

## ProRenew Complex CLR™ – Postbiotic support for skin and its microbiota



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

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.

**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.

### CLR Formulation

#### Skin Renewal Serum pH 3

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PHASE	TRADE NAME	INCI NAME	SUPPLIER	W/W %
A	Deionized Water	Water		ad 100
	Glycerol 85%, vegetable Ph. Eur.	Glycerin	Gustav Heess	5.00
	Trisodium Citrate Dihydrate	Sodium Citrate	Merck	0.47
	Sepimax ZEN	Polyacrylate Crosspolymer-6	SEPPIC	1.00
	Euxyl K 900	Benzyl Alcohol, Ethylhexylglycerin, Tocopherol	Ashland	0.80
	CutiGuard CLR™	Betaine, Sucrose, Hydrolyzed Rhodophyceae Extract, Water	CLR	3.00
	ProRenew Complex CLR™	Lactococcus Ferment Lysate	CLR	3.00
B	Mandelic Acid	Mandelic Acid	R.L. Chemical Industries Pvt.	5.00
C	NaOH (32%)	Water, Sodium Hydroxide		q.s.
D	Perfume Aloe Stars	Fragrance	Voegelé	0.20
	Oramix CG 110	Caprylyl/Capryl Glucoside	SEPPIC	1.50

#### Operating Instructions:

Mix A in this order and stir until homogeneous. Add B while stirring and adjust pH value to 3-3.5 with C. Add D as desired. Stir until homogeneous.

#### Directions for use:

Saturate a cotton pad with the serum. Sweep across face, neck and décolletage, avoiding the eye area. Always use SPF and limit sun exposure after using this product.

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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