

## **Description and package of the cosmetic product “Cream for Restoring Skin Barrier Functions”.**

### *Package includes:*

1. Formulation and ingredients (INCI) of the cosmetic product – cream under laboratory conditions, description of the technology;
2. Stability and microbiology studies;
3. Description of the industrial production and scaling process;
4. Results of clinical observation under the supervision of a dermatologist;
5. Cosmetic product information file and expert opinion;
6. Filed patent application No. LVP2021000092, “Cream for protection and strengthening of the epidermal lipid barrier of the hand skin, when the skin is frequently exposed to disinfectants”, hereinafter collectively referred to as Confidential Information.

### *Topicality*

Metabolic syndrome is a combination of the following factors: obesity, dyslipidaemia, hypertension, and glucose intolerance. It negatively affects the skin and impairs its essential functions, most importantly skin barrier function, which protects from the damage and disorders caused by endogenous and exogenous factors. People with metabolic syndrome exhibit accelerated skin ageing, impaired skin barrier function, dry skin, signs of inflammation, etc. Studies show increased oxidative stress on the skin of patients with metabolic syndrome. To improve the skin condition of people with metabolic syndrome a product with a multifactorial effect, mainly focusing on protection against oxidative stress, is required.

The developed cream composition combines a strong antioxidant property, natural skin lipid barrier restoration property, that protect the skin from moisture loss, as well as anti-inflammatory and rejuvenating properties. Based on the components of



the cream composition, the patients with MetS are expected to have the following complex effect:

- Promotion of skin hydration and turgor,
- Restoration of elasticity and smoothing skin relief,
- Reduction of pigmentation,
- Decrease of inflammation manifestations.

This influence improves the skin moisture level, makes the skin smoother and more elastic, reduces pigmentation, and slows down skin ageing.

Application: the cream is intended for use on the face, neck, and décolleté. It should be applied 1–2 times a day in a thin layer on the intended area of the skin.

The product does not contain colourants or nanomaterials.