

## TECHNICAL DATA SHEET

**Product Name:** VitaMix 5

**INCI Name:** Niacinamide, Calcium d-pantothenate, Sodium Ascorbyl Phosphate, dl-a-Tocopheryl Acetate, Vitamin B6, Maltodextrin, Sodium Starch Octenylsuccinate, Silica.

**CAS Number:** 98-92-0, 137-08-6, 66170-10-3, 58-95-7, 65-23-6, 9050-36-6, 52906-93-1, 60676-86-0

**Chemical Classification:** Mixture

**Functional Category:** Skin conditioner, Hair conditioner, Skin brightening agent, Anti-inflammatory agent

**Description:** VitaMix 5 is a multifunctional ingredient designed for skin and hair care, comprising five different vitamins. It is specially formulated for easy dispersion in various cosmetic formulations. Its unique composition includes niacinamide, calcium d-pantothenate, sodium ascorbyl phosphate, DL-a-tocopheryl acetate, and pyridoxine hydrochloride. Niacinamide is renowned for its benefits to the skin, including improving texture and tone while reducing redness and unevenness.

Calcium d-pantothenate, a derivative of vitamin B5, provides moisturizing properties that help maintain skin and hair elasticity.

Sodium Ascorbyl Phosphate, a stable form of vitamin C, delivers potent antioxidant protection, shielding skin and hair from the harmful effects of free radicals.

DL-a-Tocopheryl Acetate, a form of vitamin E, protects cell membranes and promotes the recovery of damaged skin.

Pyridoxine Hydrochloride (vitamin B6) supports skin health by reducing irritation and maintaining optimal moisture balance.

In addition to these active components, the blend contains maltodextrin and sodium starch octenylsuccinate, which enhance product texture and aid in the dispersion of active ingredients. These compounds also offer additional nutritional benefits, helping skin and hair retain hydration and elasticity. Silica stabilizes the formulation, ensuring uniformity and smooth application. VitaMix 5 is presented as a fine white powder, easily soluble in cold water, and offers formulators a convenient way to incorporate multiple vitamins at once.

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**Mechanism of Action:** Niacinamide (Vitamin B3): Improves the skin's barrier function by stimulating ceramide synthesis, essential skin lipids. It also inhibits melanin production, reducing hyperpigmentation, and possesses anti-inflammatory properties that alleviate redness and irritation. Calcium d-pantothenate (Vitamin B5): Converts into pantothenic acid in the body, which is crucial for coenzyme A synthesis. This supports skin cell regeneration and moisture retention, enhancing hydration and elasticity. Sodium Ascorbyl Phosphate (Vitamin C): Acts as an antioxidant, neutralizing free radicals and reducing oxidative stress on the skin. It promotes collagen synthesis, maintaining skin firmness and elasticity, and inhibits tyrosinase, aiding in skin brightening. DL- $\alpha$ -Tocopheryl Acetate (Vitamin E): Stabilizes cell membranes, reduces lipid oxidation, and protects against UV damage and free radicals, improving skin hydration and elasticity. Vitamin B6: Regulates hormonal activity, reducing oiliness and imperfections, and supports skin health by mitigating inflammation and aiding cell regeneration. Maltodextrin: Functions as a thickener and stabilizer, nourishing the skin and scalp while enhancing product texture.

### Benefits:

- Niacinamide improves skin texture and tone while reducing redness.
- Calcium d-pantothenate hydrates and maintains elasticity in skin and hair.
- Sodium Ascorbyl Phosphate provides antioxidant protection and enhances skin radiance.
- DL- $\alpha$ -Tocopheryl Acetate protects cell membranes and accelerates skin repair.
- Pyridoxine Hydrochloride reduces irritation and maintains moisture balance.
- Maltodextrin and Sodium Starch Octenylsuccinate enhance texture and disperse active ingredients.
- Silica stabilizes formulations and ensures smooth application.

**Usage Instructions:** VitaMix 5 is suitable for various cosmetic products, with concentrations adjusted for specific formulations. Typical usage ranges from 0.5% to 3%, depending on the desired effect and product type. Lower concentrations are effective in facial or hair serums, while higher concentrations enhance creams, lotions, or masks. Since the powder dissolves easily in cold water, it is recommended for formulations that do not exceed 40°C to maintain ingredient stability. The final product's pH should range between 6.8 and 9 for optimal efficacy and stability. VitaMix 5 is ideal for day and night creams, serums, toners, shampoos, conditioners, and masks. For external use only. Store

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in a cool, dry place, protected from air and light.

**Production Method:** A blend of niacinamide, calcium d-pantothenate, sodium ascorbyl phosphate, DL- $\alpha$ -tocopheryl acetate, and vitamin B6.

**Animal Testing:** Not tested on animals

**GMO:** Non-GMO

**Vegan:** Contains no animal-derived components

**Raw Material Origin:** USA



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