

DEVELOPMENT OF COMPOSITION OF HYGIENE PRODUCTS FOR DRY SKIN

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Introduction. Features of hygienic care of dry skin is a gentle cleansing and moisturizing, carried out through the use of soft hygiene products that do not contain anionic surfactants, and also have properties to soften the skin and supply the missing lyophobic components to water-lipid mantle of the skin. As dry skin is sensitive, prone to micro traumas, its owners frequently use diphasic tonic to remove makeup. Market analysis of hygiene products in Ukraine showed the absence of the domestic diphasic hygiene products, while imported products are represented in a wide range in pharmacies and stores.

Aim. The aim of the work is the development of the diphasic cosmetic hygiene product for the care of face and neck dry skin.

Materials and methods. There were used methods of systematic, structured, logical analysis, method of data summarizing. The method of percolation was used, physical and chemical, technological properties of silicone fluids were studied. To obtain the silicone extract the maceration method and medicinal plants that meets the SPU requirements – chamomile flowers, calendula flowers, sage leaves – were used. The composition of the extract obtained was confirmed by thin layer chromatography.

Results and discussion. As dry skin features a high reactivity and sensitivity to aggressive environmental factors, the chamomile, calendula and sage extracts were introduced in tonic. The active pharmaceutical ingredients of these plants (essential oils, coumarin, phytosterol, apigenin, carotenoids, etc.) have anti-inflammatory and weak antiseptic properties and are traditionally used in folk and official dermatological practice. The extract of medicinal plants was obtained by maceration at 42 °; the ratio of raw material-extractant was (1:10); the used extractant was cyclopentasiloxane DC 245. The specified silicone fluid is able to extract lyophobic biologically active substances and improves consumer properties of hygiene product. The tonic aqueous phase is isotonic sodium chloride solution. The oil phase stabilizer is polysorbate monooleate (tween-80), that also has antiseptic and soothing effect on the skin. All concentrations were determined on the basis of literature analysis.

Conclusions. Composition of diphasic tonic based on silicone extract of medicinal plants is processed. The remedy is recommended for hygienic care of face and neck dry skin.