

The quality control of some dermo-cosmetic products

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Abstract This paper refers to the quality analysis of three dermo-cosmetic products: two face creams and a biphasic solution used for skin cleaning: a treatment cream for acne complexion, an anti-irritating soothing cream and a matifying purifying lotion. The following characteristics have been investigated: aspect, smell, colour, solubility, type of emulsion, stability test at certain temperatures (4°C and 40°C), pH, melting point, water, volatile substances and total fats contents, acidity, ester index, saponification index, iodine index, peroxide index, microbic carriage, metal traces (determined by ICP-MS method). All analysed dermo-cosmetic products have appropriate physico-chemical characteristics. The analyses made for determining the microbial charge have proven that the three dermo-cosmetic products do not contain any aerobic pathogen germens or micromicetes, *Staphylococcus aureus* and *Escherichia Coli*. The ICP-MS analysis has proven that the dermo-cosmetic products do not contain traces of Hg and Pb.

Keywords: dermo-cosmetic products, quality control, aerobic pathogen, *Staphylococcus aureus*, *Escherichia Coli*
