

〈原 著〉

香粧品科学の立場から見た Sodium hyaluronate に関する研究 〔第II報〕使用試験による皮膚感触について

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Studies on Sodium Hyaluronate from the Viewpoint of Cosmetic Science [II] Sensory Evaluation by the Use Test

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Abstract

It was reported in a previous study¹⁾ that sodium hyaluronate (HA) had water-holding property and its film was elastic and had surface-smoothing effect. Further investigation had been carried out on its sensory effects in practical use on 353 subjects.

1. Sensory response with HA samples

HA was incorporated at concentration of 0.05% (K), 0.02% (M) and 0% (T) in a toning lotion. Sensory responses such as moisturizing feeling, smoothness, stickiness and preference in touch were found to increase by the addition of HA. Statistical analysis by sign test revealed that sample K showed significantly higher responses on moisturizing, smoothness and stickiness than sample M, and sample T exhibiting significantly less moisturizing, smoothness, stickiness and preference than samples K and M.

2. Analysis of influencing factors on sensory responses

Elder volunteers were more agreeable to the sensory responses such as moisturizing, smoothness, stickiness and preference than younger subjects. Influences of geography, temperature, humidity and the order of use in cross over applications were analyzed but these factors did not significantly affect the sensory responses in this study.

3. Conclusion

The cosmetic efficacies of HA, which were predicted as illustrated in Table 10 (underlined), were confirmed by this study. Accordingly, HA is a useful and desirable material in cosmetic field, particularly as a moisturizing and smoothing agent with forming an elastic film on skin surface.