

Functionality evaluation of cosmetics: Direct sampling of cosmetic coating on skin

Measurement challenges

To evaluate the functionality of a cosmetic product, the cosmetic coating on the skin is directly sampled. Making this sample requires that the cosmetic coating state must be maintained and also that there are as few skin ingredients as possible.

Approach

The cosmetic coating is preferably sampled by pressing Poropare against the skin where the cosmetic was applied. Matrix was then applied to the Poropare on which the sample was transferred, and measurements made.

Benefits from using Poropare

•Visualizes the cosmetic coating state on the skin

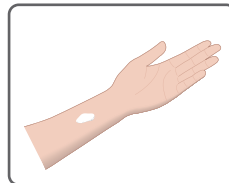
The functionality of the new product was verified by visualizing the uniformity of the oil and aqueous ingredients.

•Retains positional information

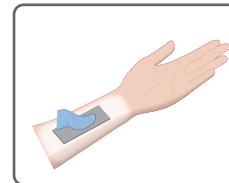
Effects from delocalizing caused by the matrix coating were confirmed as small.

Photo courtesy of the Safety and Analysis Laboratory, KOSE Research Institute.
(News release: <https://corp.kose.co.jp/ja/news/8437/>)

Measurement procedure



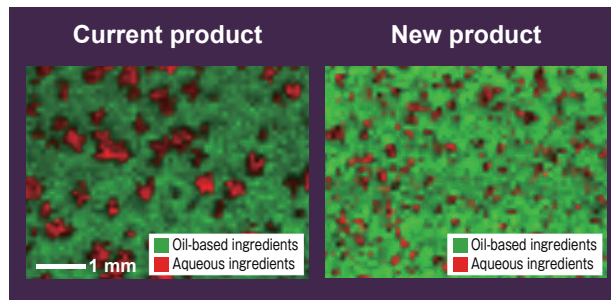
Apply cosmetic to skin.



Spread cosmetic to form a thin coat and collect a sample directly with Poropare.



Apply matrix and set into the instrument !



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