## 〈一般論文〉

## 安全で抗菌性に優れた新規オリゴ糖誘導体 -- 防腐効果のある化粧品原料の開発--

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## A Novel Oligosaccharide Derivative Developed for Cosmetic Use with Preservative Efficacy Based on Excellent Safety and Antibacterial Properties

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## **Abstract**

It is important to inhibit the growth of microorganism in order to prevent quality deterioration of cosmetics. However, preservatives existing in cosmetic formulations such as parabens have a negative image. Materials with preservative effect have been recently used in place of the preservatives but still they have many points to be improved. Therefore, we studied a hexylamino-modified  $\beta$ -cyclodextrin derivative (a citrate salt) as a novel cosmetic material that was highly safe with preservative efficacy.

Key words: antiseptic effect, cosmetic material, safety, oligosaccharide, cyclodextrin.