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〈シンポジウム〉

ナノテクノロジーの化粧品, 医薬品への応用: 化粧品分野への応用

ナノエマルジョンの生成技術とその応用

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Nano-size Emulsion, its Emulsification Techniques and Applications

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Abstract

Concentrated nano-size emulsion containing about 20% oil is formed utilizing high-pressure homogenizer, dynamic surface tension and O/W interfacial tension. This concentration shows transparent and unexpectedly high viscosity. TEM observation of the concentrated nano-size emulsion shows orderly-arranged structure, in which emulsion particles are packed like face centered cubic lattice.

Key words: nano emulsion, high pressure homogenizer, orderly-arranged structure, Psude-ceramide.