

Development of G/O emulsion consists of heparin-collagen conjugate

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Heparin-collagen conjugate using heparin having affinity for various growth factors was prepared. Furthermore, a gel-in-oil (G/O) emulsion consists of this conjugate was developed. This G/O emulsion was able to immobilize various growth factors including bFGF. In addition, this G/O showed good permeability to the skin. Furthermore, activation of the cultured dermis model was suggested in the application test of bFGF-containing G/O. From the above, the effectiveness of the G/O emulsion as a novel skin care technology having good skin permeability, stabilization of the active ingredient and its sustained release property was expected.