Formulasi dan uji penetrasi sediaan gel transfersom yang mengandung kojyl 3 amino propil phosphate sebagai pencerah kulit = Formulation and penetration test of gel transfersome containing kojyl 3 amino propil phosphate as skin lightening / Septia Andini

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Abstrak

ABSTRAK
Kojyl 3 APPA merupakan senyawa yang disintesis dari asam kojat dengan 2,6oxazaphospory chlorida dengan 3-aminopropane phosphoric acid sebagai prekursor. Kojyl 3 APPA memiliki kelarutan yang baik didalam air. Sifat hidrofilik ini menyebabkan kojyl 3 APPA sukar berpenetrasi melalui kulit. Transfersom merupakan sistem pembawa yang dapat meningkatkan penetrasi efektivitas penghantaran obat. Penelitian ini bertujuan untuk memformulasi, mengkarakterisasi dan mengevaluasi sediaan transfersom yang mengandung kojyl 3 APPA. Selanjutnya transfersom diformulasi dalam sediaan gel. Terhadap sediaan gel tersebut dilakukan uji stabilitas fisik dan uji penetrasi in vitro yang dibandingkan terhadap gel kojyl 3 APPA yang tidak dibuat transfersom. Sediaan gel transfersom secara fisik terbukti stabil pada penyimpanan pada suhu kamar, suhu rendah dan suhu tinggi. Uji penetrasi in vitro menunjukkan penetrasi kojyl 3 APPA dari sediaan gel transfersom sebesar 11,16% sedangkan untuk gel non transfersom sebesar dan 8,02%.
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ABSTRACT
Kojyl 3 APPA is a compound synthesized from kojic acid with 2,6 oxazaphospory chloride with 3-aminopropane phosphoric acid as a precursor. Kojyl 3 APPA has a good solubility in water. This causes the hydrophilic nature kojyl 3 APPA difficult to penetrate through the skin. Transfersom is a carrier system that can improve the effectiveness of drug penetration. This study aims to formulate, characterize and evaluate transfersom preparations containing kojyl 3 APPA. Furthermore transfersom formulated in a gel dosage form. Preparation gel was gel physical stability test and penetration test in vitro against kojyl gel 3 APPA non transfersom. Transfersom gel dosage form is physically proven stable in storage at room temperature, low temperature and high temperature. In vitro penetration tests show 3 kojyl APPA penetration show that penetration of kojyl 3 APPA loaded in transfersom was 11,16% while for non transfersom gel at 8,02%.