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槲皮素前体脂质体的质量考察

Quality Evaluation of Quercrtin Proliposomes

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中文关键词： 槲皮素 前体脂质体 体外释放

英文关键词:quercetin proliposmes in vitro release

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中文摘要:

目的 制备液体型槲皮素前体脂质体，并对制剂质量进行考察。方法 采用一种新型前体脂质体制备方法制备液体型槲皮素前体脂质体，将脂质体膜材和药物等以一定比例溶于分散介质中，形成一种无水的澄明溶液。考察其水合后粒子形态、粒径、电位、包封率、自组装速度等理化性质，并评价其体外释药性质。结果 槲皮素前体脂质体遇水即可快速自组装成纳米级含药脂质体混悬液，水合后粒子多为类球形，平均粒径为228.7 nm，Zeta电位为－21.2 mV，包封率可达90%以上，体外释药符合Higuchi方程。结论 槲皮素口服前体脂质体制备工艺简单可行，包封率高，具有一定的缓释效果。

英文摘要:

OBJECTIVE To prepare liquid quercetin proliposomes and investigate their pharmaceutical characteristics in vi
METHODS A new kind of proliposome preparation method was used to prepare quercetin liquid proliposomes. The liposor
membrane material and drug was dissolved in the dispersion medium according to a certain proportion, forming an
anhydrous transparent solution and then the properties of the liposomes including the shape, the size, the zeta
potential, the entrapment efficiency and the self-assemble rate in vitro were studied after the proliposomes were
changed into the liposomes. Furthermore, the in vitro release of quercetin from proliposmes was investigated. RESUI
Quercetin oral proliposomes could self-assemble into nanoscale liposome suspension rapidly in water. Liposomes shov
spherical morphology. The average size of particle was 228.7 nm and the Zeta potential was -21.2 mV. The entrapment
efficiency was up to 90%. The in vitro release could be characterized by Higuchi equation. CONCLUSION The method fo
quercetin oral proliposomes preparation is simple and feasible. The entrapment efficiency of proliposome is high wi
good stability and the drug can be sustained released from the liposomes.

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