ISSN 2249-3875

International Journal of Pharmaceutical Erudition

Review Article

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A REVIEW OF SELF-EMULSIFYING DRUG DELIVERY SYSTEM- A NOVEL APPROACH TO DRUG

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A combination of oils, surfactants, and co-surfactants are re-emulsified in aqueous media while being gently stirred and subjected to the same digestive motility that occurs in the gastrointestinal tract in a self-emulsifying drug delivery system. One method for enhancing the oral bioavailability of hydrophobic medications is SEDDS. It is possible to transform the liquid SEDDS into a solid dosage form without compromising the drug release characteristics. The hepatic first-pass effect is circumvented by the micro/nano-emulsified drug's small size, which makes it simple to absorb through lymphatic channels. The primary advantage of this strategy is that it overcomes the first rate-limiting phase of particle dissolution in the GI tract's aqueous environment by pre-dissolving the molecule. When ntropy changes exceed the energy required to expand the surface area, self-emulsification occurs.

Keywords: SEDDS, oil, surfactant, co-surfactant.

www.pharmaerudition.org Oct. 2023, 13(3), 28-43