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Carboxymethyl sago cellulose: A novel carrier for dissolution enhancement

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Syntheses of biomass-based pharmaceutical excipients have received genuine attention due to their favorable environment profile. One of the major agricultural waste materials in Malaysia is lignocellulosic biomass from sago starch industries. Pharmaceutical grade carboxymethyl sago cellulose (CMSC) was successfully synthesized from Malaysian sago biomass. Hydrophilic nature of CMSC exploited in the dissolution enhancement of poorly water soluble drug. Drug-CMSC solid dispersions were produced and characterized by DSC, FT-IR and dissolution studies. CMSC solid dispersions have shown 2.6 times more dissolution than the native drug.

Biography

Doctorate in Pharmacy having 23 years of teaching and research experience in pharmaceutics. Taught pharmaceutics courses across the world and handled students with different educational background and culture. Supervised and completed various funded research projects in drug delivery. Having a leadership role as editor and peer reviewer in different indexed journals. Published 44 peer-reviewed journal articles with a citation total of 800 and H index of 13 (Scopus).

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