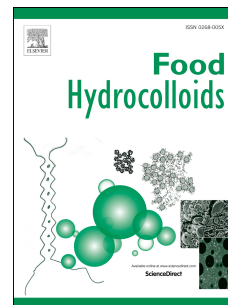


Accepted Manuscript

Novel findings for quercetin encapsulation and preservation with cyclodextrins, liposomes, and drug-in-cyclodextrin-in-liposomes

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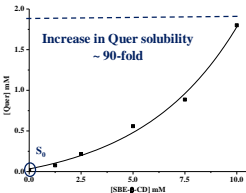
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Cyclodextrin/Quer inclusion complexes

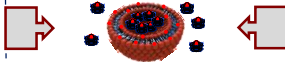


α -CD
 β -CD
 γ -CD
 β -CD derivatives:
HP- β -CD, RAMEB,
CRYSMEB, SBE- β -CD

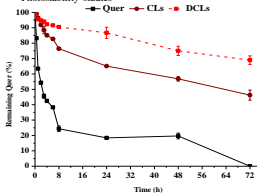
SBE- β -CD/Quer inclusion complexes



Quer-in-SBE- β -CD-in-Lipoid E80 liposomes

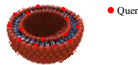


Photostability studies



DCLs exhibited the highest stability of quercetin under UV-light and in simulated gastric fluids

Quer-loaded-conventional liposomes



Lipoid S100

PC 94 %
PE 0.1 %
Iodine Value 97-107

Lipoid E80

PC 80 %
PE 7-9.5 %
Iodine Value 65-69

Phospholipon 90H

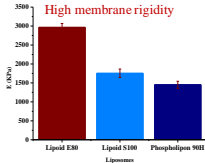
PC 90 %
PE 0 %
Iodine Value 1



Nanometric size

EE = 71.0 ± 2.0 %

LR = 15.0 ± 0.4 %



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