

Article

Sweeteners Show a Plasticizing Effect on PVP K30—A Solution for the Hot-Melt Extrusion of Fixed-Dose Amorphous Curcumin-Hesperetin Solid Dispersions

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Chromatographic conditions:

- Stationary phase - Dr. Maisch ReproSil-Pur Basic-C18 100 Å column, 5 µm particle size, 250 × 4.60 mm
- Mobile phase - methanol/0.1% acetic acid (80:20 v/v)
- Column temperature - 30 °C
- Flow rate - 1.0 mL/min

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Table S1. HPLC method validation parameters.

Curcumin	
Parameter	Curcumin dissolved in methanol Injection volume 10 µl
Linearity range (mg/mL)	0.00004 – 0.2
Correlation coefficient (r)	0.9995
a ± S _a	85245719 ± 2049391
b ± S _b	insignificant (α=0.05)
LOD (mg/mL)	0.0083
LOQ (mg/mL)	0.025
Retention Time	6.644
Hesperetin	
Parameter	Hesperetin dissolved in methanol Injection volume 10 µl
Linearity range (mg/mL)	0.00003 – 0.3
Correlation coefficient (r)	0.9999
a ± S _a	80201208 ± 341776
b ± S _b	insignificant (α=0.05)
LOD (mg/mL)	0.0022
LOQ (mg/mL)	0.0068
Retention Time (min)	4.221

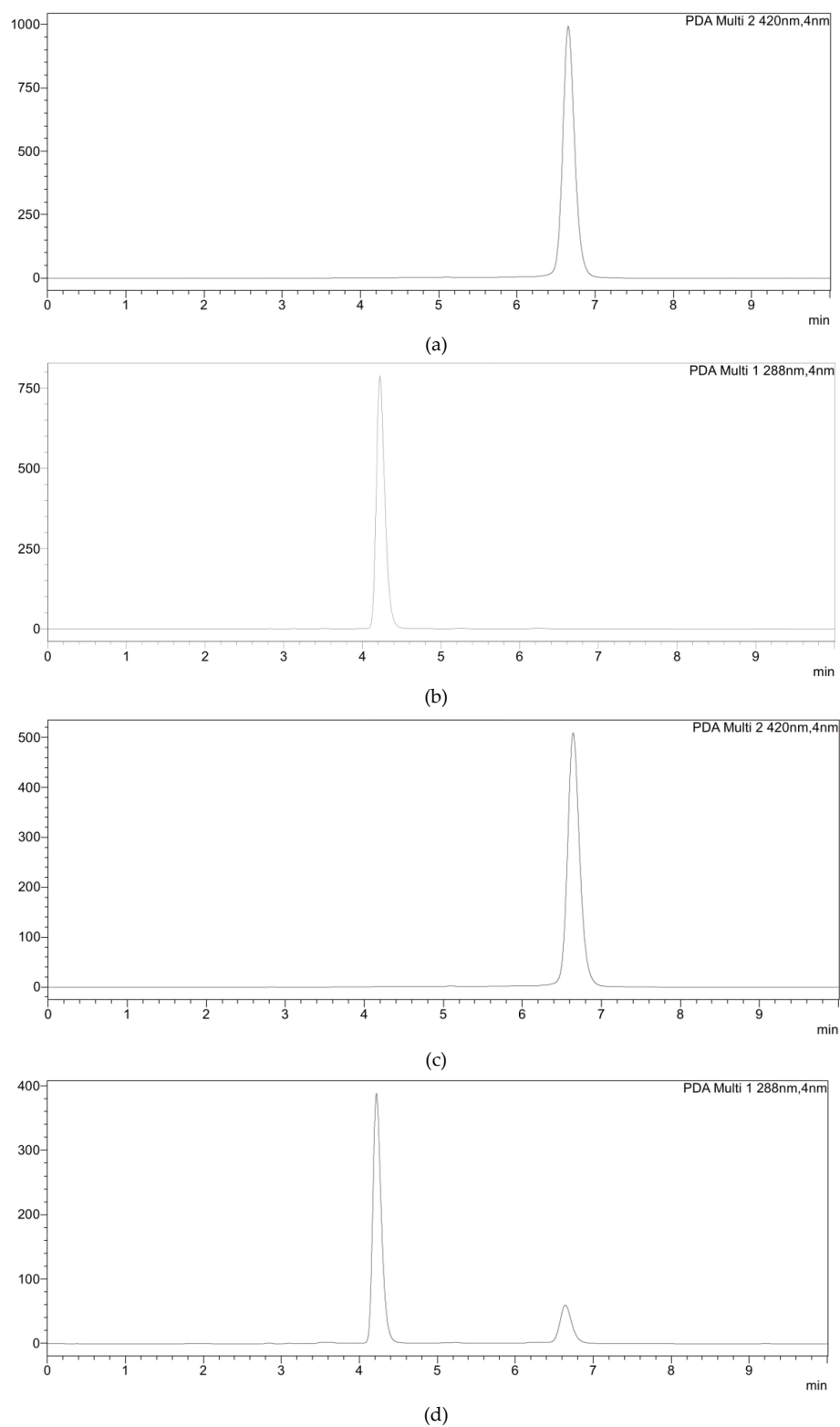


Figure S1. Chromatograms of standards and systems, curcumin standard (a), hesperetin standard (b), system 420 nm (c), system 288 nm (d).

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