

Supplementary Information

Solid-State Properties, Solubility, Stability and Dissolution Behaviour of Co-Amorphous solid dispersions of Baicalin

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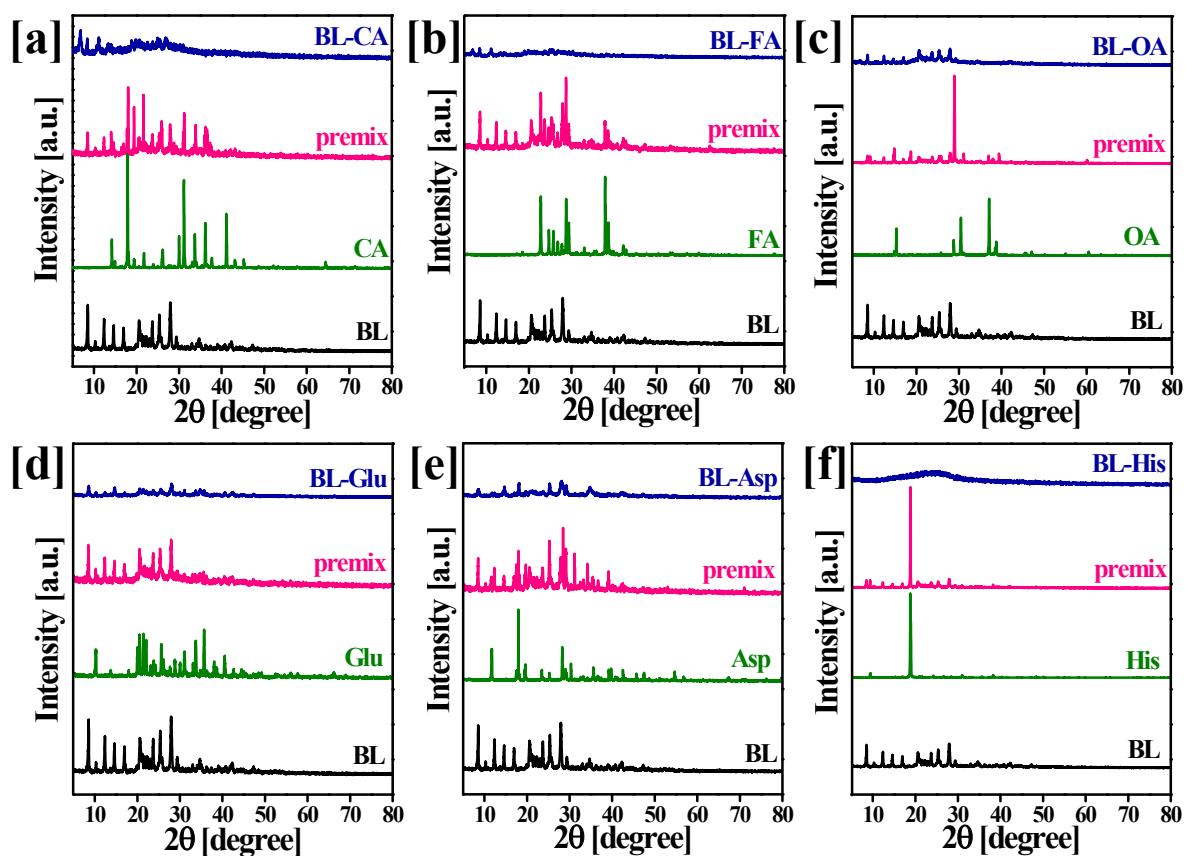


Figure S1. Powder XRD patterns of different baicalin (BL) solid dispersions (BSDs); (a) BL-citric acid (BL-CA), (b) BL-fumaric acid (BL-FA), (c) BL-oxalic acid (BL-OA), (d) BL-glutamic acid (BL-Glu), (e) BL-asparagine (BL-Asp) and (f) BL-histidine (BL-His).

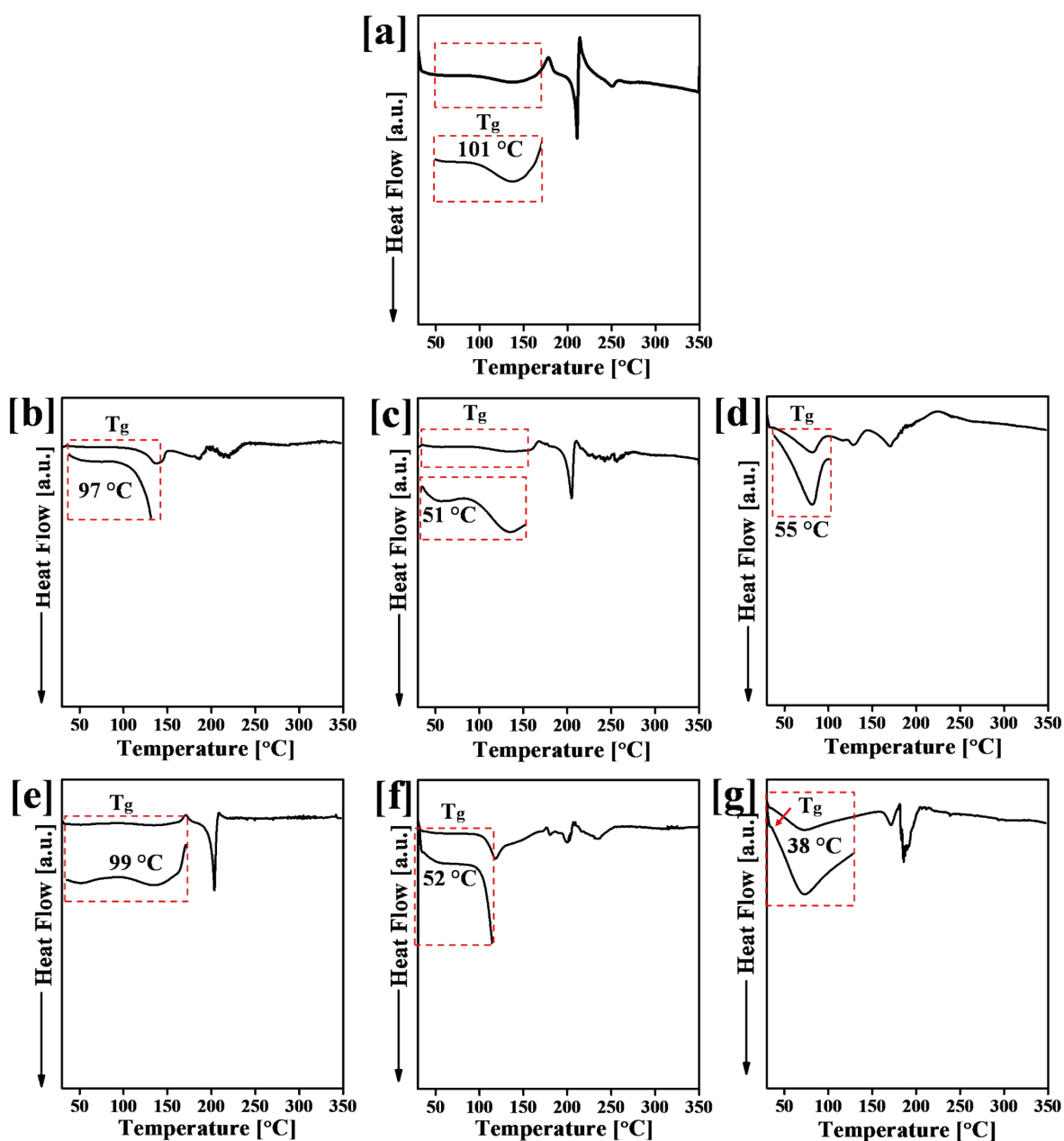


Figure S2. Glass transition temperature (T_g) of (a) baicalin (BL) and different solid dispersions formulations; (b) BL-citric acid (BL-CA), (c) BL-fumaric acid (BL-FA), (d) BL-oxalic acid (BL-OA), (e) BL-glutamic acid (BL-Glu), (f) BL-asparagine (BL-Asp) and (g) BL-histidine (BL-His).

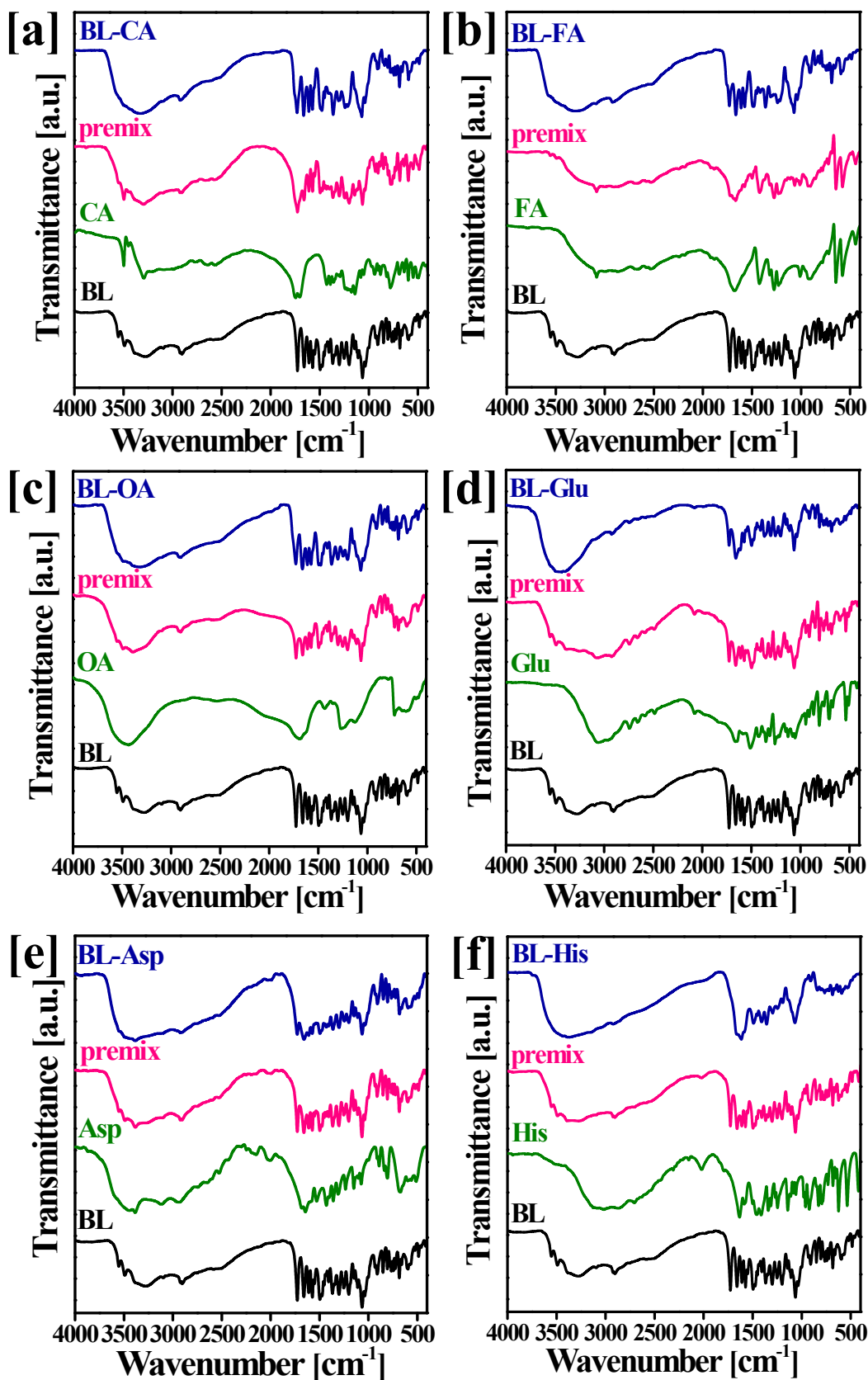


Figure S3. FTIR spectra of different baicalin (BL) solid dispersions (BSDs); (a) BL-citric acid (BL-CA), (b) BL-fumaric acid (BL-FA), (c) BL-oxalic acid (BL-OA), (d) BL-glutamic acid (BL-Glu), (e) BL-asparagine (BL-Asp) and (f) BL-histidine (BL-His).

Table S1. The major characteristic FTIR peaks of different baicalin solid dispersion (BSDs) formulations.

Peaks	BL	BL-CA	BL-FA	BL-OA	BL-Glu	BL-Asp	BL-His
–OH stretching	3557 - 3493 cm ⁻¹	3574 – 3503 cm ⁻¹	3578 - 3499 cm ⁻¹	3553 - 3492 cm ⁻¹	3554 - 3485 cm ⁻¹	3555 - 3498 cm ⁻¹	3437 cm ⁻¹
>C=O stretching	1726 cm ⁻¹ and 1660 cm ⁻¹	1730 and 1664 cm ⁻¹	1729 and 1665 cm ⁻¹	1728, 1662 cm ⁻¹	1727 and 1665 cm ⁻¹	2003 and 1680 cm ⁻¹	1615 cm ⁻¹
C=C phenyl stretching	1609, 1572 and 1495 cm ⁻¹	1610, 1574 and 1478 cm ⁻¹	1609 and 1481 cm ⁻¹	1610, 1573 and 1495 cm ⁻¹	1502 and 1372 cm ⁻¹	1644, 1528 and 1429 cm ⁻¹	1451, 1408, 1398 cm ⁻¹
C–O–C stretching	1064 cm ⁻¹	1072 cm ⁻¹	1071 cm ⁻¹	1064 cm ⁻¹	1073 cm ⁻¹	1073 cm ⁻¹	1069 cm ⁻¹

Baicalin (BL); BL-citric acid (BL-CA); BL-fumaric acid (BL-FA); BL-oxalic acid (BL-OA); BL-glutamic acid (BL-Glu); BL-asparagine (BL-Asp); BL-histidine (BL-His).