

# Active Food Packaging Coatings Based on Hybrid Electrospun Gliadin Nanofibers Containing Ferulic Acid/Hydroxypropyl-Beta-Cyclodextrin Inclusion Complexes

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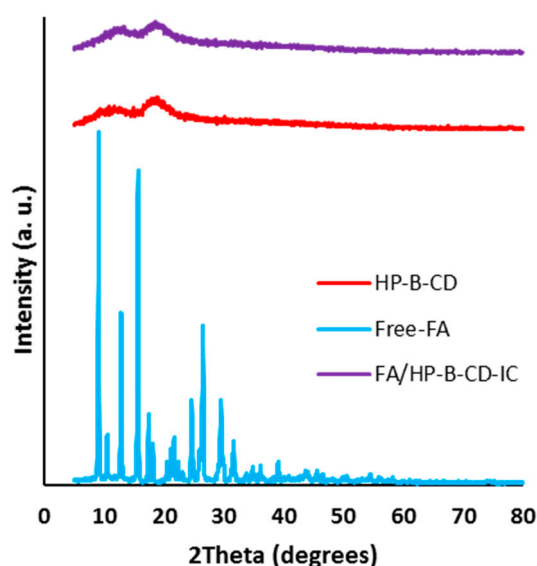
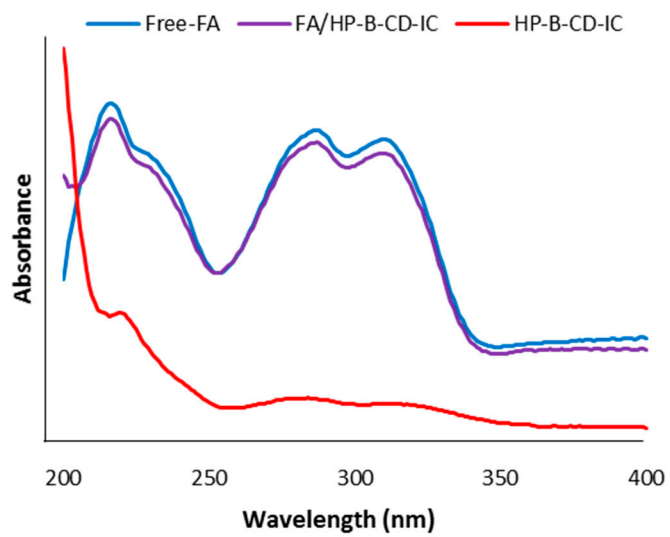


Figure S1. X-ray diffraction (XRD) diffraction patterns of pure FA, HP- $\beta$ -CD and FA/HP- $\beta$ -CD-IC.



**Figure S2.** UV-visible absorption spectra of pure FA, HP- $\beta$ -CD and FA/HP- $\beta$ -CD-IC.

**Table S1.** Temperatures of maximum degradation rate and corresponding weight losses of the different degradation stages and residual matter at 700°C from the various samples.

Sample	T <sub>max1</sub> (°C) <sup>a</sup>	WL <sub>1</sub> (%) <sup>b</sup>	T <sub>max2</sub> (°C) <sup>a</sup>	WL <sub>2</sub> (%) <sup>b</sup>	T <sub>max3</sub> (°C) <sup>a</sup>	WL <sub>3</sub> (%) <sup>b</sup>	RM (%) <sup>c</sup>
FA	-	-	252.6	43.8	442.2	81.4	3.9
G-FA	67.7	1.4	175.8	8.6	312.6	35.2	20.3
FA/HP-B-CD-IC	80.9	7.1	-	-	350.4		8.9
G-FA/HP-B-CD-IC	74.9	7.2	-	-	317.9	40.8	11.7
G	79.9	7.3	-	-	322.2	37.3	21.6

<sup>a</sup> Temperature of maximum degradation rate. <sup>b</sup> Weight loss of the corresponding degradation stage.

<sup>c</sup> Residual matter (RM) at 700 °C.