

Figure S1. HPLC chromatograph (above) and the UV spectrum (below) of the ferulic acid (Retention time 3.6 min) produced through the synergistic action of xylanase and esterase at a mass ratio 1:5 and arabinoxylan concentration 20 mg/mL.

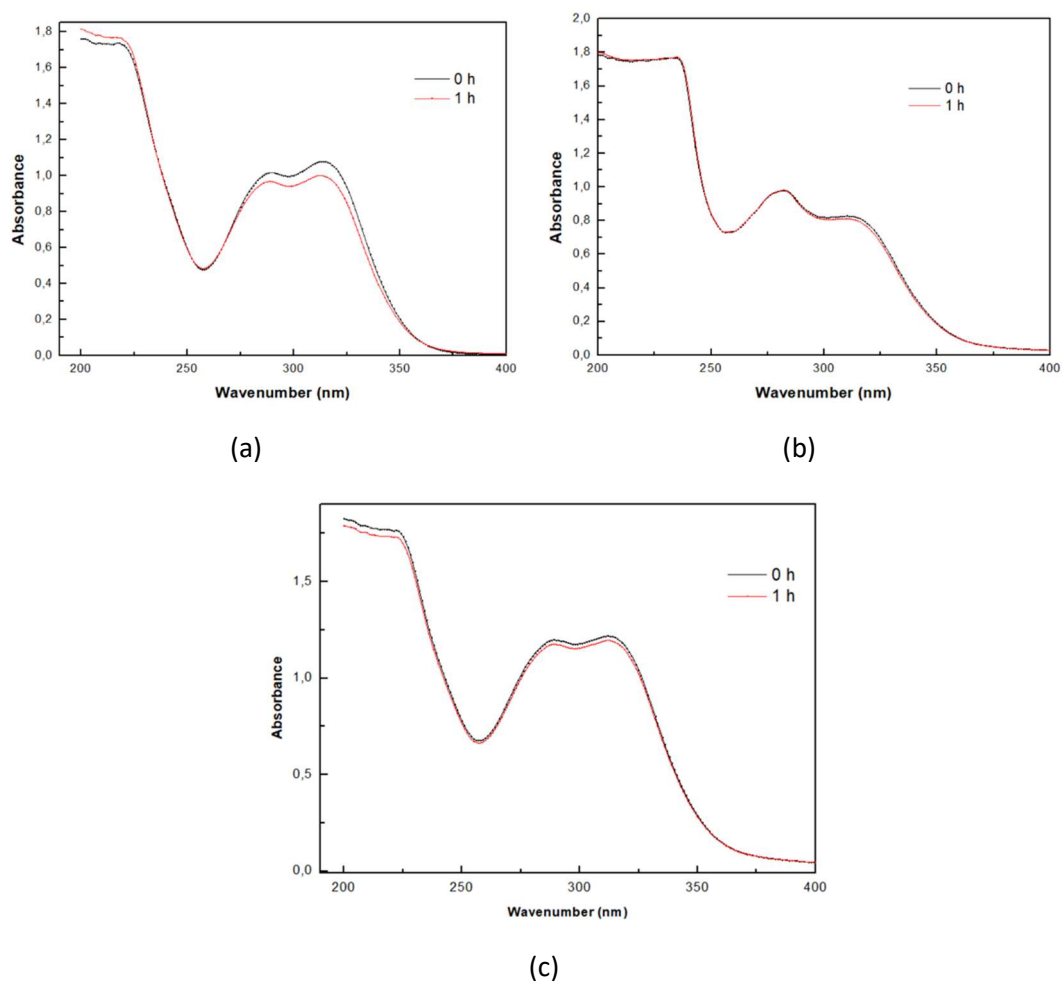


Figure S2. Spectrophotometric monitoring of the control samples (a) CMC and ferulic acid solution (b) CS-GEL and ferulic acid solution and (c) chitosan and ferulic acid solution, in the absence of laccase after 1h of incubation at 30 °C.

Table S1. Amount of total phenolics (mM) bound onto the enzymatically modified CS, CS-GEL and CMC membranes as estimated by the Folin-Ciocalteu reagent (the standard deviation was less than 5% in all cases).

Sample	Phenolics (mM)
CS	3.50
CS-GEL	4.75
CMC	2.75