Supplementary material

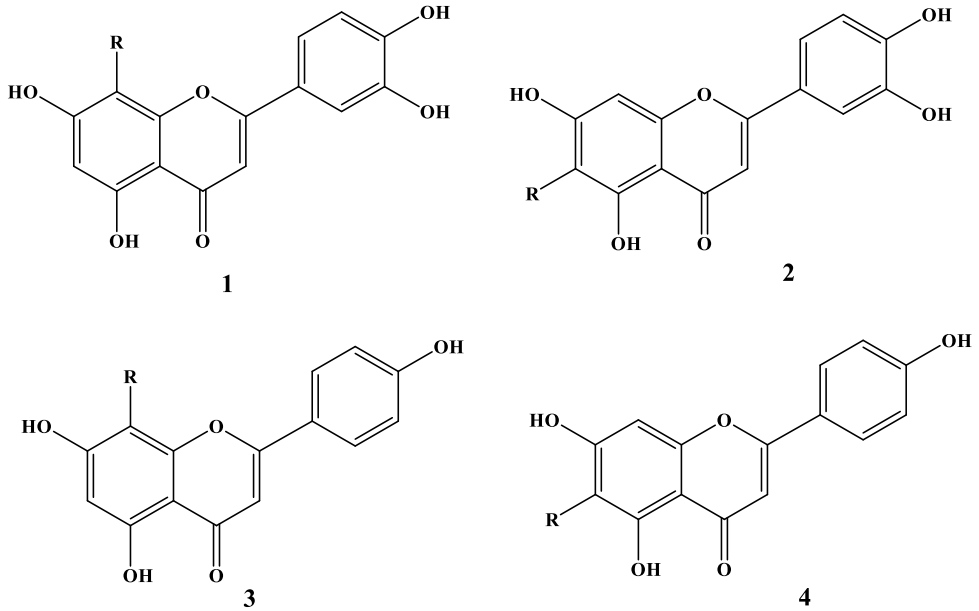
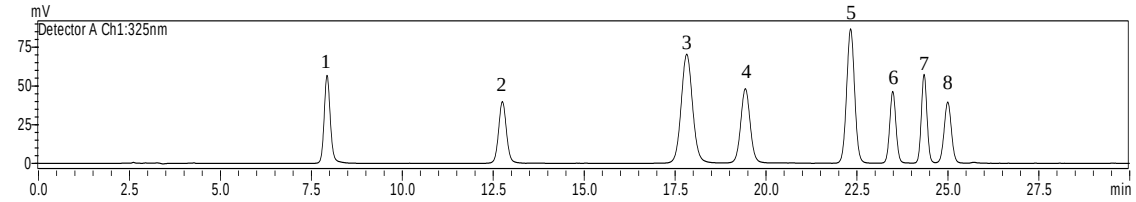
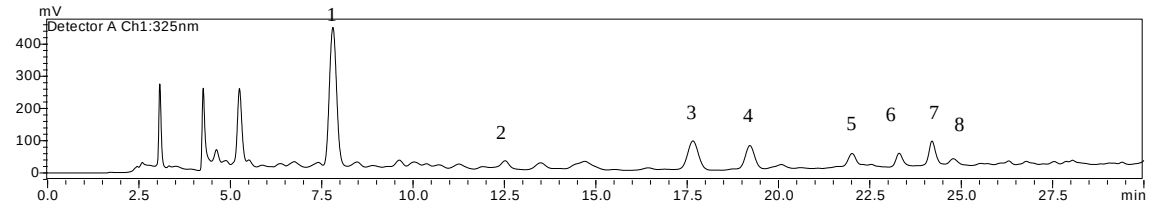


Figure S1 The molecular structure of the four flavonoids: 1- orientin (OR), 2- isoorientin (IOR), 3- vitexin (VI), 4- isovitexin (IVI); R= β-D-glucopyranosyl

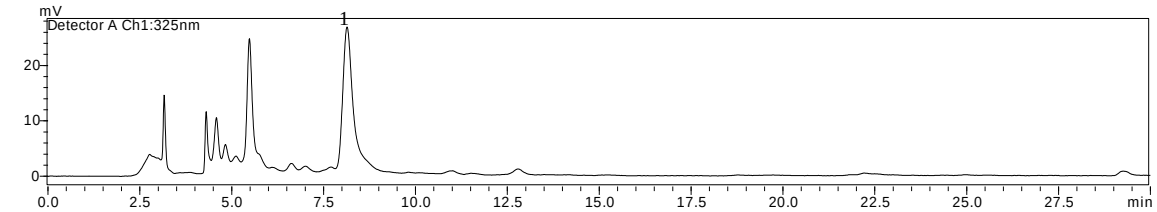
(A)



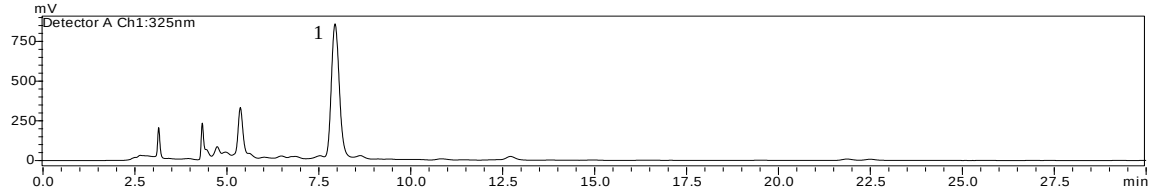
(B)



(C)



(D)



(E)

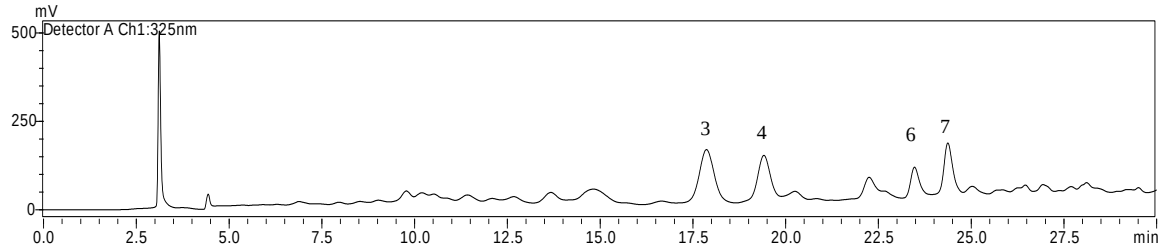


Figure S2 HPLC chromatograms of mixed standards (A), sample solution (B) and different eluting fractions from XAD-7HP in the scale-up dynamic enrichment experiment: sample loading effluent (C); water eluting fraction (D) and 60% ethanol eluting fraction (E).
1- chlorogenic acid (CA), 2- caffeic acid, 3- isoorientin (IOR), 4- orientin (OR), 5- p-counaric acid, 6- vitexin (VI), 7- isovitexin (IVI), 8- ferulic acid

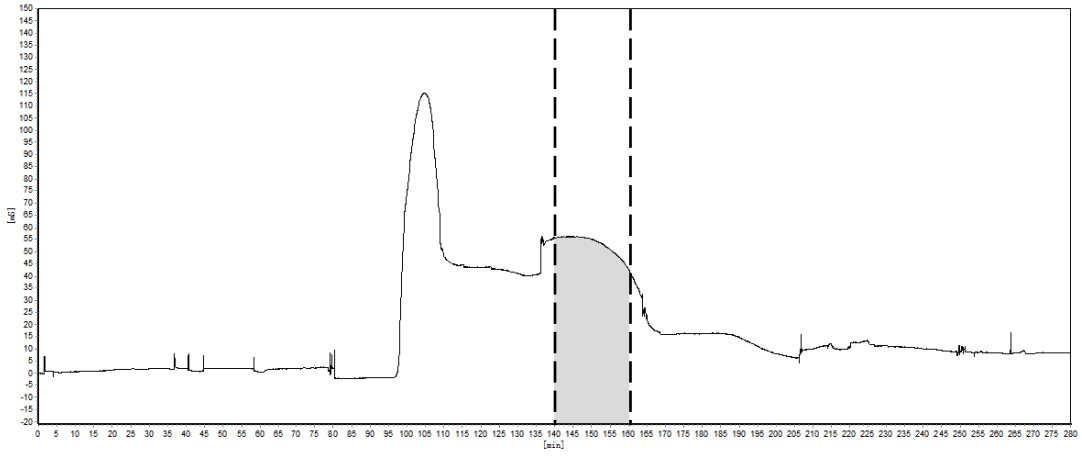
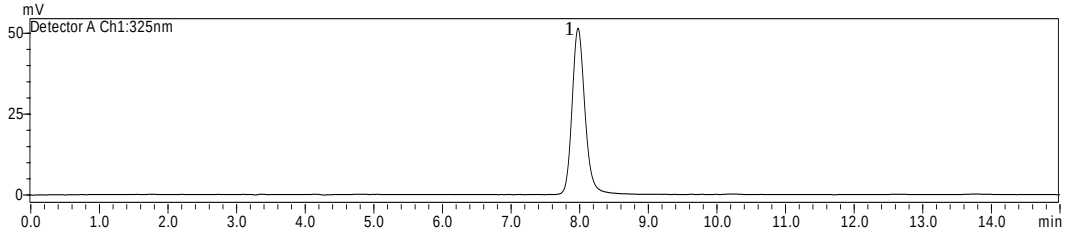


Figure S3 HSCCC separation chromatograms for CA from XAD-7HP resin

(A)



(B)

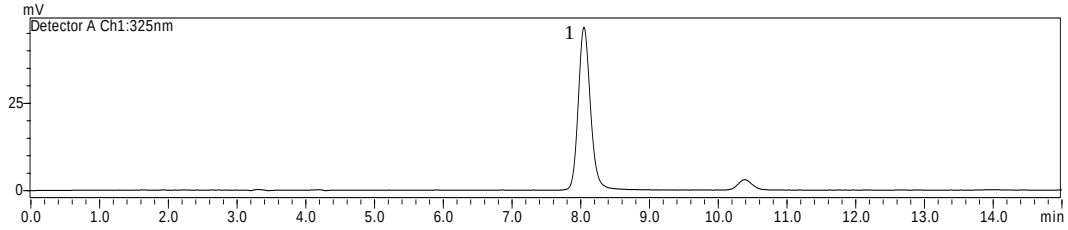


Figure S4 HPLC chromatograms of CA standard (A) and the isolated CA fraction by HSCCC (B). 1- chlorogenic acid (CA)