

Development of a pre-purification process for (+)-dihydromyricetin

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A novel pre-purification method was developed for producing (+)-dihydromyricetin from *Hovenia dulcis*, giving high purity and yield. The simple, efficient procedure involved biomass extraction, liquid-liquid extraction, and synthetic adsorbent treatment, followed by low-pressure chromatography. The use of active clay treatment and silica gel low-pressure chromatography in the pre-purification process allowed for the efficient separation of (+)-dihydromyricetin from interfering compounds and, compared with alternative processes, increased the yield and purity of crude (+)-dihydromyricetin for subsequent high-performance liquid chromatography (HPLC) purification. (+)-Dihydromyricetin of over 50% purity could be obtained simply with high yield from biomass using this pre-purification method, while minimizing solvent usage, size, and complexity of the HPLC operations for (+)-dihydromyricetin purification.