عنوان مقاله:

Extraction of Flavonoid from Achillea wilhelmsii by Supercriticalcarbon dioxide

محل انتشار:

اولین همایش ملّی گیاهان دارویی و کشاورزی پایدار (سال: 1392)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

The flavonoid compounds of Achillea wilhelmsii obtained by using supercriticalcarbon dioxide (sc-co2) extraction were investigated and the obtaind crude extractyields were compared in order to select the best operation parameters. It must benoted that CO2 was used as the supercritical fluid because it has a moderate criticaltemperature and pressure. The studied parameter were pressure (150, 170 and 190bar), temperature (35, 40 and 450C) and dynamic extraction time (10, 30 and 40min). the optimum exctraction condition occurredd at 190 bar, 450C and 30 min.Based on the mean value, pressure had dominate effect on the extraction yield. Inaddition, the components of the flavonoid from Achillea wilhelmsii were identifiedby chromatography analysis.the main components were 43.10% of comphore and 10.01% of carvacrol

كلمات كليدى:

Achillea wilhelmsii, Flavonoid, Supercritical carbon dioxide extraction, Chromatography analysis

لینک ثابت مقاله در پایگاه سیویلیکا:

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