

RESEARCH NOTES

预分散萃取方法提取槲皮素研究

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摘要 Pre-dispersed solvent extraction (PDSE) was used to extract quercetin from its diluted solution. The influences of temperature, phase volume ratio (PVR), concentration of sodium Dodecyl benzene sulphonate and pH value etc. on the extraction efficiency were examined. It is found that, compared with traditional extraction techniques under the same condition, a higher extraction productivity can be obtained by PDSE. The stability of colloidal liquid aphrons plays an important role in this process. In a certain scope, the extraction efficiency increases with PVR. Excessive amount of solvent is not much helpful. A new analytical method by using ultraviolet spectrometer to determine the concentration of quercetin is established.

关键词 [pre-dispersed solvent extraction](#) [quercetin](#) [colloidal liquid aphron](#) [separation](#)

分类号

Separation of Quercetin by Pre-dispersed Solvent Extraction

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Abstract

Pre-dispersed solvent extraction (PDSE) was used to extract quercetin from its diluted solution. The influences of temperature, phase volume ratio (PVR), concentration of sodium Dodecyl benzene sulphonate and pH value etc. on the extraction efficiency were examined. It is found that, compared with traditional extraction techniques under the same condition, a higher extraction productivity can be obtained by PDSE. The stability of colloidal liquid aphrons plays an important role in this process. In a certain scope, the extraction efficiency increases with PVR. Excessive amount of solvent is not much helpful. A new analytical method by using ultraviolet spectrometer to determine the concentration of quercetin is established.

Key words [pre-dispersed solvent extraction](#) [quercetin](#) [colloidal liquid aphron](#) [separation](#)

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