

水飞蓟全草不同部位的组成特征

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Structural features in composition of different parts of *Silybum marianum* (L.) Gaertn

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摘要 为了考察水飞蓟全草不同部位的组成特征,采用不同的提取溶剂对水飞蓟的幼草、根、茎、叶、花、种子等不同部位提取后,通过高效液相色谱法(HPLC)进行分析。以Hypersil ODS2色谱柱(250 mm×4.6 mm, 5 μm)为分离柱,以50 mmol/L磷酸二氢钾溶液和甲醇为流动相,梯度洗脱,检测波长为254 nm。在此条件下,水飞蓟不同部位的样品得到了很好的分离,发现不同部位组成差别很大,得到的组分数从幼草、种子、花、叶、根、茎依次减少。水飞蓟不同部位所含的组分极性有很大差别,不同提取方法得到的样品组成也有较大差别。实验结果可为水飞蓟全草的指纹图谱构建及应用开发提供实验依据。

关键词: 高效液相色谱 组分 水飞蓟 中草药

Abstract: To investigate the characters of different parts of *Silybum marianum* (L.) Gaertn, a high performance liquid chromatographic (HPLC) method was used to analyze the extracts of different parts (including tender sprouts, roots, stems, leaves, flowers, seeds, etc.) of *Silybum marianum* (L.) Gaertn with different solvents. There was much difference in the composition of different parts of *Silybum marianum* (L.) Gaertn. The sequence of the total number of components existed is as follows: tender sprouts, seeds, flowers, leaves, roots, stems. The obvious differences of polar components were observed not only in the nature of the compounds extracted by different solvents. The experiments will provide results for the development of fingerprint and application of *Silybum marianum* (L.) Gaertn.

Keywords: high performance liquid chromatography (HPLC) composition *Silybum marianum* (L.) Gaertn Chinese herbal medicine

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