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## 喜树生长过程中叶内喜树碱及10-羟基喜树碱的含量变化

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### Metabolic Dynamic of Camptothecin and 10-Hydroxycamptothecin in *Camptotheca acuminata* Decne Leaves During the Process of Growth

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**摘要** 建立了同时测定喜树叶片中喜树碱含量的高效液相色谱分析方法.对不同生长季节喜树嫩叶和成熟叶中喜树碱及10-羟基喜树碱含量的动态变化进行测定,结果表明:在一年的生长期中,喜树嫩叶中喜树碱的含量变化为一双峰曲线,分别在7月和9月达到峰值,其中7月的含量最高;成熟叶中喜树碱的含量持续下降;在生长过程中,喜树叶片中喜树碱和10-羟基喜树碱的含量变化呈现出明显的相关性.

**关键词:** 高效液相色谱法;喜树叶;喜树碱;10-羟基喜树碱 生长季节

**Abstract:** An HPLC method for the simultaneous determination of CPT and HCPT in *Camptotheca acuminata* Decne.leaves was established.Using this assay,CPT and HCPT in leaves of *Camptotheca acuminata* Decne. in different seasons were determined.The results showed that, in a year,the content of CPT presented two peaks curve in tender leaves of *C. acuminata*,which appeared in July and September respectively and reached the highest point in July,while it declined persistently in older leaves;The accumulation of CPT and HCPT presented evident relativity in the different growth stages.

**Key words:** HPLC leaves of *Camptotheca acuminata* camptothecin 10-hydroxy-camptothecin growth stage

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