

箬竹叶片活性成分含量的季节变化

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Seasonal changes of *Indocalamus* leaf active ingredients contents.

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摘要 以2008年于南京地区采集的粽粳竹、美丽箬竹和阔叶箬竹叶片为试验材料,研究了箬竹叶片中总黄酮、茶多酚和可溶性糖含量的季节变化.结果表明:3个竹种叶片的总黄酮、茶多酚和可溶性糖含量存在显著的季节差异.不同季节叶片中总黄酮含量为1.7%~2.7%,春季粽粳竹和美丽箬竹叶片中总黄酮含量最高,冬季阔叶箬竹叶片中总黄酮含量最高;茶多酚含量为5.5%~7.6%;可溶性糖含量在1.0%~8.5%,以春季最高.在展叶后3个月内,粽粳竹和美丽箬竹叶片中各活性成分含量随叶龄的增加而增加.12月至翌年3月为箬竹叶的最佳采叶时期.3个竹种中,阔叶箬竹叶片的3种活性成分含量均最高,是活性成分利用潜力较大的竹种.

关键词: 箬竹叶 总黄酮 茶多酚 可溶性糖 采叶时期

Abstract: In this paper, the leaves of *Indocalamus herklotsii*, *Indocalamus decorus*, and *Indocalamus latifolius* were collected from Nanjing in different seasons to study the seasonal changes of the total flavonoids, tea polyphenols, and soluble sugar contents in the leaves. There existed significant differences in the test active ingredients contents among the leaves of the three *Indocalamus* species. The leaf total flavonoids content of the three *Indocalamus* species in different seasons ranged in 1.7%-2.7%, being the highest for *I. herklotsii* and *I. decorus* in spring and for *I. latifolius* in winter. The leaf tea polyphenols content varied from 5.5% to 7.6%; and the leaf soluble sugar content was 1.0%-8.5%, with the maximum in spring. Within the three months after leaf unfolding, the active ingredients contents in *I. herklotsii* and *I. decorus* leaves increased with leaf age. The optimal period for harvesting *Indocalamus* leaves was from December to next March. Among the three *Indocalamus* species, *I. latifolius* had the highest contents of the three active ingredients in leaves, suggesting that *I. latifolius* had greater potential value in the utilization of its leaf active ingredients than the other two species.

Key words: *Indocalamus* leaf total flavonoids tea polyphenols soluble sugar leaf-harvesting period

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