



云南大学学报(自然科学版) » 2002, Vol. 24 » Issue (5): 375-377 DOI:

化学

[最新目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)

[◀ Previous Articles](#) | [Next Articles ▶▶](#)

### 高效液相色谱法测定果酒中的糖、甘油和乙醇

黄海涛<sup>1</sup>, 杨力佳<sup>1</sup>, 丁中涛<sup>2</sup>, 李忠<sup>1</sup>

1. 云南烟草科学研究院烟草化学室 云南 昆明 650106;
2. 云南大学化学系 云南 昆明 650091

### Determination of sugar, glycerol and ethanol in ratafee with high performance liquid chromatography

HUANG Hai-tao<sup>1</sup>, YANG Li-jia<sup>1</sup>, DING Zhong-tao<sup>2</sup>, LI Zhong<sup>1</sup>

1. Chemical Lab of Yunnan Academy of Tobacco Science, Kunming 650106, China;
2. Department of Chemistry, Yunnan University, Kunming 650091, China

- [摘要](#)
- [参考文献](#)
- [相关文章](#)

全文: [PDF \(542 KB\)](#) [HTML \(KB\)](#) 输出: [BibTeX](#) | [EndNote \(RIS\)](#) [背景资料](#)

**摘要** 研究了高效液相色谱法测定果酒中的糖、甘油和乙醇的方法.果酒样品用Sep-Pak-C18固相微萃取小柱预分离,以Waters Sugar-Pak I 钙型阳离子交换柱为固定相,0.05g/LEDTA钙钠水溶液为流动相,示差折光仪为检测器,一次进样测定果酒样品中的蔗糖、葡萄糖、果糖、甘油和乙醇.最低检测限在微克级,相对标准偏差在0.92%~1.52%之间,标准回收率在97%~105%之间.方法用于果酒样品的测定,结果满意.

**关键词:** 高效液相色谱法 果酒 糖 甘油 乙醇

**Abstract:** A high performance liquid chromatography(HPLC) method for the determination of sugar, glycerol and ethanol in ratafee was studied. Ratafee was pre-separated by solid phase extraction with Sep Pak C 18 column. Sugars, glycerol and ethanol were separated on a Waters Sugar Pak I (6.5mm×300mm) cations ion exchange column, with a refractive index detector system and 0.05g/L EDTA calcium disodium salt solution as mobile phase. Sucrose, glucose, fructose, glycerol and ethanol could be simultaneously determined in a single injection. The limits of detection were: sucrose 1.5µg/mL, glucose 2.0µg/mL, fructose 2.0µg/mL, glycerol 2.5µg/mL and ethanol 2.5µg/mL. The mean recoveries of sugar, glycerol and ethanol were between 97% and 105% and the relative standard deviations were between 0.92% and 1.52%. This method can be applied to the determination of sugars, glycerol and ethanol in ratafee with satisfactory result.

**Key words:** high performance liquid chromatography (HPLC) ratafee sugars glycerol ethanol

收稿日期: 2001-12-02;

引用本文:

黄海涛, 杨力佳, 丁中涛等. 高效液相色谱法测定果酒中的糖、甘油和乙醇[J]. 云南大学学报(自然科学版), 2002, 24(5): 375-377.

HUANG Hai-tao, YANG Li-jia, DING Zhong-tao et al. Determination of sugar, glycerol and ethanol in ratafee with high performance liquid chromatography[J]. , 2002, 24(5): 375-377.

没有本文参考文献

没有找到本文相关文章

#### 服务

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [E-mail Alert](#)
- ▶ [RSS](#)

#### 作者相关文章

- ▶ [黄海涛](#)
- ▶ [杨力佳](#)
- ▶ [丁中涛](#)
- ▶ [李忠](#)

版权所有 © 《云南大学学报(自然科学版)》编辑部

编辑出版: 云南大学学报编辑部 (昆明市翠湖北路2号, 650091)

电话: 0871-5033829(传真) 5031498 5031662 E-mail: yndxxb@ynu.edu.cn yndxxb@163.com