

食品安全检测

# 载体辅助液液萃取(SLE)-GC/MS法快速测定酒饮料中氨基甲酸乙酯

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## 摘要

关键词

分类号

## Rapid Determination of Ethyl Carbamate in Alcoholic Beverages with GC/MS Coupling with Supported Liquid-Liquid Extraction

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**Abstract** A method for simple and rapid determination of ethyl carbamate in alcoholic beverages was developed by GC/MS coupling with modified supported liquid-liquid extraction. Dehydrated with sodium chloride-anhydrous sodium sulfate, then static extraction was done with the support of diatomaceous earth and extraction solvent of ether, after changing solvent with methanol. Cleaning up was performed with dispersed PSA, quantification was done with isotope internal standard dilution method. LOD is  $10 \text{ ng g}^{-1}$ . Range of yield and RSD in two spiked samples are 8.8%-109.9%, 4.9%-13.4%, respectively. The method is easy, rugged and provided technical base for monitoring batch of EC sample.

**Key words** [supported solid liquid extraction\(SLE\)](#) [alcoholic beverages](#) [dispersed solid phase extraction](#) [GC/MS](#) [ethyl carbamate](#)

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