

兴奋剂检测专栏

LC-MS/MS法定性检测保健品中非法添加的镇静催眠药

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摘要 建立了同时检测保健品中非法添加的8种镇静催眠药的分析方法。用甲醇直接提取, 以 $10 \text{ mmol}\cdot\text{L}^{-1}$ 甲酸铵 (pH 3.5) 和乙腈为流动相, 采用Agilent Zorbax SB C₁₈ (100 mm × 2.1 mm × 3.5 μm) 色谱柱进行分离, 电喷雾离子源, 正离子多反应监测扫描方式分析检测。8种镇静催眠药的检测限均不高于 $1 \text{ mg}\cdot\text{kg}^{-1}$, 回收率为73.3%~99.0%。

关键词 [保健品](#) [镇静催眠药](#) [LC-MS/MS](#)

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Detection of Sedative Hypnotic Drugs in Health Products by LC-MS/MS

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Abstract Total of 8 sedative hypnotic drugs illegally mixed into health products were simultaneously detected by LC-MS/MS. Methanol was used as the extraction solution. Mobile phase was included $10 \text{ mmol}\cdot\text{L}^{-1}$ ammonium formate (pH 3.5) and acetonitrile. Agilent Zorbax SB C₁₈ (100 mm × 2.1 mm × 3.5 μm) column was used to separate the compounds, and mass data were acquired with the ESI(+) MRM mode. The LODs of sedative hypnotic drugs are no more than $1 \text{ mg}\cdot\text{kg}^{-1}$. Recoveries of the eight drugs are 73.3%-99.0%.

Key words [health](#) [products](#) [sedative](#) [hypnotic](#) [drugs](#) [LC-MS/MS](#)

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