

食品安全检测

# 应用液相色谱-质谱联用技术同时测定花生中的黄曲霉毒素B1、B2、G1、G2

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摘要

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## Simultaneous Determination of Aflatoxin B1, B2, G1, G2 in Peanut by LC-MS/MS

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**Abstract** The aflatoxin B1, B2, G1, G2 in peanut were developed by LC-MS/MS. The mass spectrometer was operated in the positive ion mode using multiple reaction monitoring. The sample was extracted with methanol, and chromatographic separation was carried out on a MGIII-C<sub>18</sub> column (2.1 mm×150 mm×1.8 μm) with elution of V(acetonitrile):V(water)=35:65. The limit of detection is 0.5 μg·L<sup>-1</sup>, the limit of quantitation is

0.5 μg·kg<sup>-1</sup>. The linear plots are between 0.5 μg·L<sup>-1</sup> and 25.0 μg·L<sup>-1</sup>. Overall recoveries are between 88.3% and 99.2%, and RSD values are between 1.73% and 3.75%.

**Key words** [LC-MS/MS](#) \_ [aflatoxin B1](#), [B2](#), [G1](#), [G2](#) \_ [peanut](#)

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