

ICS 67.050

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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国国家标准

GB/T 18979-2003

**Determination aflatoxins content Cleanup by
immunoaffinity chromatography in foodand
determination by high-performance liquid
chromatigraphy and fluorometer**

食品中黄曲霉毒素的测定

免疫亲和层析净化高效液相色谱法和荧光光度法

Issued on February 21, 2003

Implemented on August 01, 2003

**Issued by General Administration of Quality Supervision, Inspection
and Quarantine of the People's Republic of China**

Contents

Foreword	1
1 Scope	1
2 Cleanup immunoaffinity high-performance liquid chromatography	1
2.1 Method summary	1
2.2 Reagent and solution	1
2.3 Apparatus and equipment	3
2.4 Analytical procedure	3

Foreword

This standard is proposed by Administration of Quality Supervision, Inspection and Quarantine of Beijing

This standard is governed by National Food Industrial Standardization Technical Committee.

Main drafter units of this standard are: Administration of Quality Supervision, Inspection and Quarantine of Beijing, Qingdao Entry-exit Inspection and Quarantine Bureau and National Research Center for CRM

Main drafters of this standard are: Wang Jing, Zhang Peng, Zhnag Yibing and Shao Mingwu

This standard is issued for the first time.

Method for the determination of aflatoxins in animal tissues—LC-MS/MS method

1 Scope

This standard specifies the conditions and detailed analysis steps for determination of aflatoxins content cleanup by immunoaffinity chromatography in food and determination by high-performance liquid chromatography and fluorometer.

This standard is suitable for determination of the aflatoxins in the foods such as zeamays, earth chestnut and its product (peanut butter, arachidic, peanut rice), rice, wheat, seed oil liposteatosis, sauce and eclips.

The checkout of the aflatoxins is the sample is limit: chromatography B1 determination by high-performance liquid chromatography as well as chromatography B₁, B₂, G₁ and G₂, total checkout limit is 1ug/kg, chromatography B1 determination by high-performance liquid fluorometer as well as chromatography B₁, B₂, G₁ and G₂, total checkout limit is 1ug/kg, sauce sample checkout limit is 2.5ug/kg.

2 Cleanup immunoaffinity high-performance liquid chromatigraphy

2.1 Method summary

The sample is distilled by carbinol-water. After filtered and diluted of distilled liquid, the distilled liquid is cleanup immunoaffinity high-performance liquid chromatography contenting the specific antibody of aflatoxin. This antibody have the specifically to the B₁, B₂, G₁ and G₂, aflatoxin is connected on the antibody with tomographic medium. The extraneous component on the immunization compatible pole by the water or Tween -20/PBS, eluted by cleanup by immunoaffinity chromatography for carbinol, cleanup liquid determine the content of aflatoxin by the iodine solution derivation by high-performance liquid chromatigraph.

2.2 Reagent and solution



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