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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3622-2013

Determination of 2-chloroaniline in foodstuffs for export. LC/MS/MS method

出口食品中2-氯苯胺含量的测定 液相色谱-质谱/质谱法

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. Xiamen, People's Republic of China Exit Inspection and Quarantine Technology Center.

1 Scope

This standard specifies the export of food in 2-chloroaniline content by liquid chromatography - mass spectrometry/mass spectrometry.

This standard applies to rice, fresh mushrooms, tea, green beans, mango, green onions, carrots, spinach, tilapia, pork, shrimp, liver in 2-chloro-aniline content detection and confirmation.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis

3 Method summary

2-chloroaniline in the sample was extracted by acetonitrile, a mixed cation exchange solid phase extraction column purification, liquid chromatography - mass spectrometry/mass

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spectrometer and validation, external standard.

4 Reagents and materials

Unless otherwise specified, the reagents were of analytical grade water as a water line with GB/T 6682 regulations.

4.1
acetonitrile. chromatography.

4.2
Methanol. chromatographically pure.

4.3
formic acid. Chromatographic pure.

4.4
sodium chloride.

4.5
anhydrous sodium. 650 °C before use burning 4h, the dryer use.

4.6
Ammonia. 36% (mass concentration).

4.7
acetic acid. Chromatographic pure.

4.8
formic acid (0.1%). Pipette 1.0mL of formic acid (4.3), diluted with water, and set the volume to 1L.

4.9
ammoniated methanol (595 by volume). amount of 5mL ammonia (4.6) and 95mL of methanol (4.2) and mix.

4.10
acetic acid - water (595 by volume). amount of 5mL of acetic acid (4.7) and 95mL water, and mix.

4.11 0.1% formic acid - acetonitrile (11 volume). amount of water 100mL0.1% formic acid (4.8), was added 100mL acetonitrile (4.1), mixed spare.

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4.12

Standard substances. 2-chloroaniline (o-chloroaniline, CAS number. 95-51-2), molecular formula. C6H6ClN, purity of greater than or equal to 99.0%.

4.13

standard stock solution. Weigh 10mg (accurate to 0.1mg) 2- chloroaniline standards, dissolved in methanol and set the volume to 100mL brown Color volumetric flask, formulated at a concentration of 100μg/mL standard stock solution, and stored in the dark at 4 °C. Standard stock solution within six months stable.

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