Chinastandards.org

ICS 67.050
CCS X04

SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3856-2014

Determination of ethoxyquin residue in food for export

出口食品中乙氧基喹残留量的测定

(English Translation)

Issued on: January 13, 2014 **Implemented on: August 1, 2014**

Issued by: General Administration of Customs

Preview: page 1 of 4 shown, 16 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3856-2014

Chinastandards.org

Table of Contents

Foreword

1 Scope

2 Normative references

3 Method summary

4 Reagents and materials

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. Chongqing, People's Republic of China Exit Inspection and Quarantine, Chongqing Import and Export Food Safety Engineering Technology center.

1 Scope

This standard specifies the liquid chromatography and gas chromatography in food ethoxyquin residues - mass spectrometry methods.

This standard applies to quinoline ethoxy residues in pork, shrimp, eggs, liver, pears, cabbage, tomatoes, chili powder in food Determination 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 the first gas chromatography - mass spectrometry

3 Method summary

Sample of ethoxyquin residue extracted with hexane, the pH adjusted liquid-liquid extraction purification and nitrogen blow was concentrated to dryness, normal hexane, with Gas

Preview: page 2 of 4 shown, 16 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3856-2014

chromatography mass spectrometer (GC-MS) was measured, quantified by external standard peak area.

4 Reagents and materials

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

4.1
hexane. chromatographically pure.

4.2
Methanol. chromatographically pure.

4.3
sodium carbonate.

4.4
anhydrous sodium. 650 °C burning 4h, cooled in a desiccator to room temperature and stored in a sealed bottle aside.

4.5
hydrochloric acid.

4.6
sodium hydroxide.

4.7 0.5mol/L hydrochloric acid solution. take about 42mL hydrochloric acid (4.5) diluted with water to 1000mL.

4.8 5mol/L sodium hydroxide solution. Take 20g sodium hydroxide (4.6) dissolved in water and dilute to 100mL.

4.9
Ethoxyquin standard substance. C14H19NO, purity >=98%, CAS. 91-53-2.

4.10
standard stock solution. accurately weighed 0.01g (accurate to 0.1mg) Ethoxyquin standard in 100mL flask with n-hexane Dissolve and dilute to the mark, formulated at a concentration of 100mg/L standard stock solution, and this solution was stored at -18 °C under dark.

4.11
intermediate standard solution. precise amount of 10mL standard stock solution (4.10) in 100mL flask, dissolve and dilute with n-hexane to the mark, formulated at a concentration of 10ms/L standard stock solution, and this solution was stored at -18 °C under dark.

Preview: page 3 of 4 shown, 16 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3856-2014

Chinastandards.org

4.12

standard solution. take the right amount of all kinds of stock solution, with n-hexane formulated into an appropriate concentration of the standard working solution, standard working solution it was stored at -18 °C under dark.

Preview: page 4 of 4 shown, 16 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3856-2014