

ICS 67.060
CCS X 11

SN

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

SN/T 0983-2013

Replacing SN/T 0983-2000

**Determination of benfuresate residues in cereals for export
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: General Administration of Customs

Table of Contents

Foreword
1 Scope
2 Normative references
3 Method summary
4 Reagents and materials
5 Apparatus

Foreword

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

Instead of the standard SN/T 0983-2000 "furosemide yellow grass residues in cereals for export." This standard SN/T 0983-2000 phase Ratio, in addition to editorial changes, the major technical changes are as follows.

--- Standard name from "cereals for export furosemide yellow grass residues in" to "Determination of cereals for export furosemide grass yellow residues";

--- Expand the scope of the standard testing;

--- Deletion of a portion of the sample;

--- Improved sample preparation techniques;

--- Increasing the positive samples by gas chromatography - mass spectrometry confirmatory test.

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

This standard was drafted. People's Republic of China Shandong CIQ.

1 Scope

This standard specifies the method for detection of cereals for export furosemide grass yellow residues.

This standard is applicable to the export of rice, wheat and corn determination furosemide yellow grass residues 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

The sample was extracted with acetonitrile, the C18/NH₂ SPE column series, concentrated, constant volume, using a gas chromatograph (GC-FPD) were measured, Gas chromatography - mass spectrometry (GC-MS) confirmed, external standard.

4 Reagents and materials

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

4.1

acetone. chromatography.

4.2

hexane. chromatographically pure.

4.3

sodium chloride.

4.4

over anhydrous sodium sulfate. After burning 650 °C 4h, placed in a sealed container reserve.

4.5

over anhydrous sodium sulfate column. 7.5cm x 1.5cm (internal diameter) glass column, 5cm high built with anhydrous sodium sulfate.

4.6

C18 solid phase extraction column. 1000mg/6mL, or equivalent person.

4.7

NH₂ group SPE. 1000mg/6mL, or equivalent person.

4.8

furosemide grass yellow standard (English name. benfuresate, C₁₂H₁₆O₄S, CAS number. 68505-69-1). purity not less than 97.5%.

4.9

furosemide grass yellow standard solution. Accurately weigh an adequate amount of furosemide grass yellow standards, formulated with acetone to a concentration of 100µg/mL standard stock solution, Diluted as needed with acetone to the appropriate concentration of the standard working solution.

5 Apparatus

5.1

Gas chromatograph. equipped with a flame photometric detector (sulfur filter, wavelength 394nm).

5.2

Gas chromatography - mass spectrometry. equipped with electron impact ionization (EI).

5.3

Electronic balance. a sense of the amount of 0.01mg, 0.01g.

5.4

oscillator.

5.5

mill.

5.6

rotary evaporator.

5.7

micro syringe. 10µL.

5.8

nitrogen blowing instrument.