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CCS B41

SN

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

SN/T 3539-2013

**Determination of cyflumetofen in food for export
(English Translation)**

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Foreword

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

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.

1 Scope

This standard provides the food for export Cyflumetofen and its metabolite o-trifluoromethylbenzoic acid residues in liquid chromatography - tandem mass spectrometry detection Measuring method.

This standard applies to beans, eggplant, cabbage, tomatoes, apples, tea, pork, fish, liver and other Cyflumetofen and its metabolites in food O-trifluoromethylbenzoic acid residues measured and confirmed.

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

Sample remaining Cyflumetofen and its metabolites with acetonitrile - water (91 volume) extracted with ethyl acetate - n-hexane mixed Solution (19 volume) extract, was concentrated, purified by column carbon graphite by liquid chromatography - tandem mass spectrometer, external standard peak area Product quantification.

4 Reagents and materials

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

4.1

acetonitrile. chromatography.

4.2

Methanol. chromatographically pure.

4.3

acetone. chromatography.

4.4

n-hexane.

4.5

ethyl acetate.

4.6

hydrochloric acid.

4.7

formic acid.

4.8

ammonium acetate.

4.9

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

4.10

cyflumetofen standard substance. English called cyflumetofen; CAS Number. 400882-07-7; Molecular formula. $C_{24}H_{24}F_3NO_4$;

Purity $\geq 95\%$.

4.11

o-trifluoromethylbenzoic acid standard substance. English name. 2- (Trifluoromethyl) benzoic acid; CAS number. 433-97-6 Molecular Type. $C_8H_5F_3O_2$, purity $\geq 95\%$.

4.12

standard stock solution. Weigh accurately take the right amount of each standard substance with acetonitrile - formulated in a concentration in the aqueous mixed solution (23, volume ratio) 100mg/L standard stock solution, and this solution at 0 °C ~ 4 °C preservation, can be used for six months.

4.13

intermediate standard solution. Apply a variety of standard stock solution, acetonitrile - water mixed solution (23 volume) formulated as 20mg/L