

ICS 67.050
CCS X04

SN

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

SN/T 3852-2014

**Determination of metaflumizone residues in food for export.
LC-MS/MS method
(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. Jilin People's Republic of China Exit Inspection and Quarantine, People's Republic of China Entry-Exit Inspection and Tonghua Quarantine Bureau.

1 Scope

This standard specifies the metaflumizone export of food and its metabolites (3-trifluoromethyl benzoate) residual amount of liquid chromatography - mass spectrometry /MS detection and confirmation methods.

This standard applies to residual amount of metaflumizone and its metabolites in foods as corn, rice, grapes, citrus, onions, peanuts, milk and other measurement 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 reference documents, the latest versions apply to this document.

Laboratory use specifications and test methods GB/T 6682 analysis.

3 Method summary

Sample metaflumizone and its metabolites extracted with methanol, dried PSA (N-2-aminoethyl) solid phase extraction (SPE), methanol eluent After concentration,

methanol solution (1 by volume ratio) was dissolved constant volume, liquid chromatography - mass spectrometry/mass spectrometer and validation, 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

methanol. residual level.

4.2

sodium chloride.

4.3

magnesium sulfate.

4.4

sodium hydroxide.

4.5

Sodium hydroxide solution (0.1mol/L). Weigh 4.0g of sodium hydroxide dissolved in water and dilute to 1000mL.

4.6

metaflumizone (CAS No. 139968-49-3) and its metabolite [3-trifluoromethyl-benzoic acid methyl ester (CAS No. 2967-66-0)] Standard.

Purity not less than 98.0%.

4.7

metaflumizone and metabolite standards stock solution. Accurately weigh an appropriate amount of metaflumizone and its metabolites standards, prepared in methanol and concentrated Degree of 100 μ g/mL of the standard stock solution. The solution at 0 °C ~ 4 °C refrigerator stored.

4.8

metaflumizone and its metabolites standard solution. as needed metaflumizone and its metabolites standard stock solution was diluted with methanol to Applicable standard working solution concentration. The solution at 0 °C ~ 4 °C refrigerator stored.

4.9

PSA (N-2-aminoethyl) SPE. PSA, 250mg, 6mL, or equivalent person; before use, with 6mL methanol activation, stream Rate 1mL/min.

4.10

microporous membrane. 0.20 μ m, organic phase.