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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3857-2014

Determination of isoxaflutole and its metabolites residues in foodstuffs for export. LC-MS/MS method

出口食品中异恶唑草酮及代谢物的测定 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 content of this document may involve patents, publication of this document Institutions do not recognize these patents involve responsibility.

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

This standard was drafted. Heilongjiang People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the different foods carfentrazone-one and its metabolites by liquid chromatography - mass spectrometry/mass spectrometry.

This standard applies to rice, corn, pork, chicken, milk, oranges, spinach, eggs isoxazole ketone and grass residues of metabolite 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

Sample remaining isoxazole grass and one with an acidic metabolites extracted with acetonitrile extract was N- secondary amine (PSA), octadecyl silicon Alkyl (ODS) of carbon black and graphite purification by liquid chromatography - mass spectrometry/mass

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spectrometry detection and confirmation, external standard.

4 Reagents and materials

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

4.1
acetonitrile. chromatography.

4.2
acetic acid (99.5%).

4.3
formic acid.

4.4
TCA.

4.5
sodium acetate.

4.6
ammonium acetate.

4.7
sodium chloride.

4.8
anhydrous magnesium. by burning 650 °C 4h, placed in the dryer set aside.

4.9 1% acetic acid in acetonitrile. Take 10mL acetic acid (4.2), was added 990mL of acetonitrile (4.1) and mix.

4.10 2% aqueous solution of acetic acid. Take 20mL acetic acid was added 980mL of water, and mix.

4.11 1.3% formic acid aqueous solution. Take 13mL formic acid (4.3), was added 987mL of water, and mix.

4.12
trichloroacetic acid solution. 0.1mol/L. Weigh 16.34g trichloroacetic acid (4.4), add water to 1000mL, and mix.

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4.13

ammonium acetate solution. 1mmol/L. Weigh 0.0771g ammonium acetate (4.6), add water to 1000mL, and mix.

4.14

formic acid - acetonitrile (8020, volume ratio). Take 80mL formic acid solution (4.11), dissolved in acetonitrile and diluted to 100mL.

4.15

isobutyl ketone carfentrazone and metabolite standards. one grass isoxazole (isoxaflutole, IXF), CAS. 141112-29-0, a purity of greater than or equal 99%; isobutyl ketone metabolites of carfentrazone I (diketonitrile, DKN), CAS. 143701-75-1, a purity of greater than or equal to 99%; isobutyl ketone carfentrazone Generation Xie was II (benzoicacidmetabolite, BA), CAS. 142994-06-7, a purity of greater than or equal to 99%.

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