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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3628-2013

Determination of 11 dinitroaniline herbicide residues in botanical foodstuffs for export-GC-MS/MS method

出口植物源食品中二硝基苯胺类除草剂残留量测定 气相色谱-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 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. Tianjin People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the export of food of plant origin in the B-butene F Ling, trifluralin, ethyl butyrate F Ling, Ling cyproterone fluorine, chlorine, fluorine ethyl spirit, aminoethyl fluorine, Aminopropionate F Ling, double Ding Yue Ling, isopropyl trifluralin, pendimethalin, trifluralin sulfonamide 11 types dinitroaniline herbicides by gas chromatography Tandem mass spectrometry methods.

This standard applies to soybeans, rice, wheat, onions, cabbage, citrus and apples of 11 dinitroaniline herbicide residues Determination.

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

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3 Method summary

The sample remaining after dinitroaniline herbicide containing 1% glacial acetic acid with hexane saturated with acetonitrile and the extracts were dried N- secondary amine (PSA), octadecylsilane (C18) purification by gas chromatography - mass spectrometry/mass spectrometry, external standard.

4 Reagents and materials

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

4.1
hexane. chromatographically pure.

4.2
acetonitrile. chromatography.

4.3
glacial acetic acid. Chromatographic pure.

4.4
anhydrous magnesium. by burning 650 °C 4h, stored in a desiccator.

4.5
extraction solvent (containing 1% glacial acetic acid with hexane saturated with acetonitrile). add 10mL to 990mL glacial acetic acid saturated with n-hexane Off acetonitrile.

4.6
dinitroaniline herbicides standards. purity of greater than 98.0%, standard material information see Appendix A.

4.7
standard stock solution. accurately weighed amount dinitroaniline herbicides standard (4.6), accurate to 0.1mg, n-hexane was dissolved by dilute Release and set the volume to 10mL, standard stock solution to a concentration of 1mg/mL formulation. This solution at 0 °C ~ 4 °C conditions can be stored in the dark 6 months.

4.8
mixed standard intermediate solution. serial dilution mixed standard stock solution (4.7) required to prepare a suitable concentration of working standard Solution, this solution at 0 °C ~ 4 °C dark conditions can be stored for 1 month.

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4.9

N- propyl-ethylenediamine (PSA) Adsorbent. 40μm ~ 100μm.

4.10

octadecylsilane (C18) Adsorbent. 40μm ~ 100μm.

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