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SN

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

SN/T 3768-2014

95; SN 0493-1995; SN 0495-1995; SN 0522-1996; SN 0585-1996; SN 0591-1996; SN 0651-1997; SN/T 1017.2-2001

**Determination of organicphosforus residues in cereal grains for
export - GC/MS method**

出口粮谷中多种有机磷农药残留量测定方法气相色谱-质谱法
(English Translation)

Issued on: January 1, 1970

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Foreword

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

This standard replaces SN 0133-1992 "cereals for export diazinon, fenthion, fenitrothion, parathion, phenthoate, benzene residues of parathion Test methods ", SN 0136-1992 "cereals for export dichlorvos, diazinon, fenthion, malathion residues in " SN 0137-1992 "pirimiphos-methyl residues in cereals for export", SN 0144-1992 "export of vegetables and vegetable products enemy DDVP, diazinon and malathion test methods residues ", SN/T 0351-2009" imported and exported food Ethoprophos Residues party Law ", SN 0495-1995" cereals for export B ethyl parathion residues in ", SN 0522-1996" terbufos residues in cereals for export the amount of testing methods ", SN 0585-1996" acephate residues in cereals for export and oilseeds ", SN 0591-1996" exit Cereals and oilseeds in two parathion residues in ", SN 0651-1997" cereals for export methyl phorate residues in "and SN/T 1017.2-2001 "amine phosphate residues in cereals for export" 11 standard, compared with the original 11 standards, in addition to editing Modifications outside the main technical changes are as follows.

--- Scope, including the contents of the original detection index 11 related standards;

--- The standard gas chromatography - mass spectrometry, instead of the original 11 standard gas chromatography;

--- The standard test floor below the original 11 standard test floor.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of 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 Cereals dichlorvos, acephate, Ethoprophos, two parathion, terbufos, phorate methyl, diazinon, methyl ethyl sulfide Phosphorus, pirimiphos-methyl, malathion, fenitrothion, 16 kinds of parathion, fenthion, phenthoate, butylamine phosphorus, benzene parathion (see Appendix A

Table A.1) organophosphorus pesticide residues by gas chromatography - mass spectrometry and confirmation methods.

This standard applies to corn, brown rice, rice, wheat and buckwheat dichlorvos, acephate, Ethoprophos, two parathion, terbufos, methyl Phorate, diazinon, B ethyl parathion, pirimiphos-methyl, malathion, fenitrothion, parathion, fenthion, phenthoate, butylamine phosphorus, benzene parathion 16 kinds of organophosphorus pesticide residues by gas chromatography - mass spectrometry and confirmation methods.

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 Principle 3 Sample residual dichlorvos, acephate, Ethoprophos, two parathion, terbufos, phorate methyl, diazinon, parathion ethyl acetate, methyl 16 kinds of organophosphorus pesticide pirimiphos water, malathion, fenitrothion, parathion, fenthion, phenthoate, butylamine phosphorus, benzene parathion - are acetone Substance extracted with dichloromethane liquid - partition, gel column purification, and then by the GCB and Florisil solid phase extraction column, clean, wash Off was concentrated and dissolved constant volume, gas chromatography - mass spectrometry, external standard.

4 Reagents and materials

Unless otherwise specified, the reagents were of analytical grade water to comply with GB/T 6682 water level.

4.1

hexane. Residual level.

4.2

Cyclohexane. Residual level.

4.3

acetone. residual level.

4.4

ethyl acetate. residual level.

4.5

dichloromethane. residual level.

4.6

anhydrous sodium. 650 °C burning 4h, stored in a sealed container in the back.

4.7

ethyl acetate - n-hexane (14 volume). amount of 100mL and 400mL of ethyl acetate-hexane, and mix.

4.8

cyclohexane - ethyl acetate. (11 volume). amount of 100mL and 100mL cyclohexane, ethyl acetate, and mix.

4.9

NaCl. 20g/L.

4.10

dichlorvos and other 16 kinds of pesticide standards. purity of greater than or equal to 98%.

16 kinds of pesticide dichlorvos 4.11 standard stock solution. accurately weighed amount of standard products, formulated with acetone to a concentration of 1000µg/mL Standard stock solution. The solution was stored at 0 °C ~ 4 °C refrigerator.