

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

SN 0148-1992

Replacing SN 0148-1992; SN 0153-1992; SN 0154-1992; SN 0155-1992; SN 0161-1992

**Determination of organophosphorus residues in fruits and
vegetables for import and export. GC-FPD and GC-MS methods
(English Translation)**

Issued on: February 25, 2011

Implemented on: July 1, 2011

Issued by: General Administration of Customs

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Foreword

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

This standard replaces SN 0148-1992 "chlorpyrifos-methyl residues in fruits for export", SN 0153-1992 "export fruit Malathion residues in ", SN 0154-1992" pirimiphos-methyl residues in "exporting fruits, SN 0155-1992 "inside the fruit for export uptake residues method", SN 0161-1992 "fruit for export methyl parathion residues in" SN 0189-1993 "export fruit Three parathion residues in", SN 0196-1993 "vegetables for export ISO CARBOPHOS amount seized Test methods ", SN 0278-1993" methamidophos residues in vegetables for export ", SN 0288-1993" fenthion residues in fruits for export Allowance test methods ", SN 0291-1993" fruit for export dimethoate, methyl parathion residues in ", SN 0334-1995" exit Fruits and vegetables 22 organophosphorus pesticide residues testing methods ", SN 0342-1995" fruit for export azinphos-methyl, ethyl, azinphos-methyl Residue testing methods ", SN 0344-1995" fruits for export methidathion residues method ", SN 0354-1995" export fruit Ambush kill parathion residues in ", SN 0599-1996" fruit for export MEVINPHOS residues in. " this standard compared with SN/T 0148-1992 standard and other 15 major technical changes are as follows.

--- Test items from the 30 15 criteria increased to 70;

--- Increasing the confirmed part;

--- Remove the sampling part.

Please note that some content of this document may involve patents, the issuing authority of this 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. People's Republic of China, Xiamen Entry-Exit Inspection and Quarantine of Guangdong People's Republic of China Bureau, People's Republic of China Hunan Entry-Exit Inspection and Quarantine of Jilin People's Republic of China.

1 Scope

This standard specifies the fruits and vegetables dichlorvos, acephate, cadusafos, Dicrotophos, phorate, dimethoate, methyl parathion, chlorpyrifos, Pirimiphos, fenthion, C worm parathion, phoxim, sterilization phosphorus, three parathion, triazophos, pyridazine parathion, phosmet, trichlorfon, ethoprophos, methyl mix Phosphorus, omethoate, uptake of phosphorus, diazinon, fonofos, IBP, chlorazol phosphorus, chlorpyrifos-methyl, paraoxon, fenitrothion, parathion bromine, B Bromide parathion, fosthiazate, Profenophos, ethyl parathion, phosphorus blast enemy, pyraclofos, coumaphos, methamidophos, sulfotep, terbufos, monocrotophos, in addition to the line Phosphorus, Hypoderma, pirimiphos-methyl, parathion, methyl chlorfenvinphos, isofenphos, phenthoate, methidathion, Methyl sulfur ring phosphorus, cutting kill, phosalone, Azinphos-methyl, naled, acephate speed, methyl ethyl disulfoton, dopamine phosphorus, B ethyl parathion, phosphamidon, to poison phosphorus, malathion, methyl isobutyl Liu P, aqueous amine Parathion, quinoline, insecticidal fear, iodine parathion, sulfur ring phosphorus, bacteria Granville, parathion benzene, ethyl azinphos 70 kinds of organophosphorus pesticide residues gas chromatography Spectrum and gas chromatography - mass spectrometry method.

This standard applies to pineapple, apple, litchi, carrots, potatoes, eggplant, spinach, peas, fresh mushrooms, fresh mushrooms, fresh burdock, delicious Mushrooms, green onions in the above-mentioned 70 kinds of organophosphorus pesticide residues detected.

2 Method summary

Samples of organophosphorus pesticide residues were extracted with acetonitrile, over Envi-Carb/PSA SPE column, concentrated, constant volume, by gas chromatography (GC-FPD) and gas chromatography - mass spectrometry (GC-MS) assay, external standard.

3 Reagent material

Unless otherwise indicated, the reagents used were of analytical grade, water is deionized water.

3.1

acetonitrile. liquid chromatography.

3.2

acetone. liquid chromatography.

3.3

Toluene. liquid chromatography.

3.4

ethyl acetate. liquid chromatography.

3.5

acetone - toluene (6535, volume ratio). Measure 65mL acetone (3.2) and 35mL toluene (3.3) and mix.

3.6

anhydrous magnesium. 550 °C burning 4h, cooled in a desiccator to room temperature and stored in a sealed bottle aside.

3.7

Sodium chloride. 140 °C baking 4h, cooled in a desiccator to room temperature and stored in a sealed bottle aside.

3.8

Envi-Carb/PSA combined with small column 1). 500mg/500mg/6mL (this standard is to use Sigma-Aldrich/Supelco public Our products are finished), or equivalent person.

1) non-commercial statement. Company name listed here only to provide a reference to facilitate the work does not involve commercial purposes, to encourage users to try different manufacturers standard the product.

3.9 70 kinds of organophosphorus pesticides standard substance. purity $\geq 95\%$, detailed in Table A.1.

3.10

standard solution.

3.10.1

Standard stock solution. Weigh accurately were taken 10.0mg (100% conversion of fineness) of each pesticide standard substance (3.9) in small Beaker, dissolved with small amount of acetone, transferred to a 100mL volumetric flask, and then a small amount of ethyl acetate and washed with a small beaker several times with the washing solution was poured into container