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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3150-2012

Determination of bisphenol diglycidyl ether residues in food for export. LC-MS/MS method

出口食品中双酚A-二缩水甘油醚、双酚F-二缩水甘油醚及其衍生物残留测定 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.

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

This standard was drafted. People's Republic of China Hubei Exit Inspection and Quarantine, People's Republic of China Shanghai Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the export of food bisphenol A- diglycidyl ether, diglycidyl ether of bisphenol F- content by liquid chromatography and its derivatives Tandem mass spectrometry methods.

This standard applies to the export of canned vegetables, canned fruits, canned fish, canned meat bisphenol A- diglycidyl ether, diglycidyl bisphenol F-Oil and its derivatives ether content testing.

2 Method summary

Samples A- diglycidyl ethers of bisphenol, diglycidyl ether of bisphenol F- derivative with tert-butyl methyl ether and extracted, the HLB SPE Take a small column purified by high performance liquid chromatography - mass spectrometry/mass spectrometer, external standard.

3 Reagents and materials

Unless otherwise specified, reagents were analytical grade water for ultra-pure water.

3.1

A yeast. chromatography.

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3.2
tert-butyl ether. chromatography.

3.3
ammonium acetate.

3.4
formic acid.

3.5
n-hexane.

3.6
methanol - water - formic acid solution (8020 0.1, by volume). Methanol 80mL, water 20mL, 0.1mL of formic acid is added and mixed Uniform.

3.7 0.005mol/L ammonium acetate solution. Weigh appropriate amount of ammonium acetate in water to dissolve and dilute to 1000mL.

0.005mol/L ammonium acetate solution 3.8 0.1% formic acid. Take 0.1mL of formic acid to 0.005mol/L ammonium acetate solution to volume 100mL.

3.9
HLB solid phase extraction columns. 60mg, 3mL, or equivalent person. Before use, respectively 5mL methanol and 5mL water pre-rinsed and holding column Body moist.

3.10
bisphenol-A- diglycidyl ether, diglycidyl ether of bisphenol F- and derivatives thereof Standards information see Appendix A.

3.11
standard stock solution. weigh the amount of standard (accurate to 0.0001g), were dissolved in methanol formulated at a concentration of 1.0mg/mL standard Quasi stock solution, kept in -18 °C refrigerator.

3.12
mixed standard working solution. methanol each stock standard solution mixing diluted 10.0μg/mL of standard working solution. Save on 4 °C refrigerator.

3.13
matrix standard working solution. accurate Pipette a volume of intermediate standard working solution diluted with a blank sample extract according to the need for appropriate Standard working solution concentration using now.

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3.14

microporous membranes. organic, 0.20μm.

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