BJS 201705

Determination of Vanillin, Methyl Vanillin and Ethyl Vanillin in Foods

食品中香兰素、甲基香兰素和乙基香兰素的测定

China Food and Drug Administration

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Attachment 1

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1 Scope

This standard specifies the high performance liquid chromatography - tandem mass spectrometry for the determination of vanillin, methylvanillin and ethylvanillin in foods.

This standard applies to the determination of vanillin, methylvanillin and ethylvanillin in liquid milk, cream, infants and young children formula milk powder (excluding infants and young children formula milk powder for special medical purposes), cereal-based complementary foods for infants and young children, milled grain processed products, vegetable fat and other foods.

2 Principle

After being extracted by acetonitrile, samples are defatted by n-hexane and then purified, and detected by high performance liquid chromatograph - tandem mass spectrometer; the contents of vanillin, methylvanillin and ethylvanillin are quantified by using external standard method.

3 Reagents and Materials

Unless otherwise specified, all the reagents used in the method are analytical pure, and the water is Grade 1 water specified in GB/T 6682.

3.1 Reagents

3.1.1 Methanol (CH_4O): chromatographically pure.

3.1.2 Acetonitrile (C_2H_3N): chromatographically pure.

3.1.3 Formic acid (CH_2O_2): chromatographically pure.

3.1.4 n-hexane (C_6H_{14}): chromatographically pure.

3.1.5 Sodium chloride (NaCl): be ignited at 550℃ for 4 h for later use.

3.1.6 0.1% aqueous solution of formic acid: measure 10 mL of formic acid, and dilute to 1000 mL with water.

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