CCS X04

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 22325-2008

Determination of benzoyl peroxide in wheat flour by high performance liquid chromatography

小麦粉中过氧化苯甲酰的测定 高效液相色谱法

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Standardization Administration of China

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Foreword

Appendix A of this standard is an informative annex. The standard proposed by the National Food Authority. This standard by the National Standardization Technical Committee OILS. This standard was drafted. National Standards and Monitoring Center for Agricultural Research (Heilongjiang). Drafters of this standard. mongolica Li Guangyu, Syria Wu Geng, Wang Zhiqiang, Jiang held Juan Liu, Jiang Wen, Chen Lihua, Wang Shikun, Cao Fucheng, Solutions for the new week, Lu hole descent. Determination of benzoyl peroxide in wheat flour had High Performance Liquid Chromatography

1 Scope

GB/T 22325-2008 is the Chinese national standard on determination of benzoyl peroxide in wheat flour by high performance liquid chromatography. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 22 August 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2008. Classification: ICS (ICS) , CCS X04. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the wheat flour with high performance liquid chromatography benzoyl peroxide content of the principles, materials and reagents, equipment, points Step analysis, calculation method and precision. This standard applies to wheat flour in the determination of the content of benzoyl peroxide. The standard minimum detection limit of 0.5mg/kg.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 6379.2 measurement methods and results of Accuracy (trueness and precision) - Part 2. Determine the standard measurement repeatability And reproducibility of the basic method (GB/T 6379.2-2004, ISO 5725-2.1994, IDT)

GB/T 6682 analytical laboratory use specifications and test methods (GB/T 6682-2008,

ISO 3696. 1987, MOD) Principle

3 From the methanol extract of benzoyl peroxide, potassium iodide as a reducing agent to restore it as benzoic acid, high performance liquid chromatography in 230nm under test.

4 Reagents and materials

This standard reagents used, unless otherwise stated, all analytical reagents, test water should meet the requirements of a water GB/T 6682 regulations.

4.1 Methanol. chromatographically pure.

4.2 KI solution. an aqueous solution of 50% (mass concentration).

4.3 benzoic acid. purity >=99.9%, national standard.

4.4 ammonium acetate buffer solution (0.02mol/L). Weigh 1.54g ammonium acetate dissolved in water and diluted to 1L, after mixing with the 0.45μm After membrane filtration use.

4.5 benzoic acid standard stock solution (1mg/mL). Weigh 0.1g (accurate to 0.0001g) benzoic acid, diluted to 100mL with methanol.

5 Equipment

5.1 High performance liquid chromatograph. equipped with a UV detector; Column. C18 reverse phase column.

5.2 Balance. a sense of the amount of 0.0001g.

5.3 vortex mixer.

5.4 solvent filter. Step

6 Analysis

6.1 Preparation of samples Weigh sample 5g (accurate to 0.1mg) plug colorimetric tube, add 10.0mL of methanol in a vortex mixer to mix with 50mL