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# INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# SN/T 3876-2014

## Food contact materials. Polymers. Determination of 2, 4-Diamino-6-hydroxypyrimidine in simulants. High performance liquid chromatography

食品接触材料 高分子材料 食品模拟物中2，4-二氨基-6-羟基嘧啶的测定 高效液相色谱法

**(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 Shandong CIQ.

## 1 Scope

This standard specifies the food contact materials - Polymer - 2,4-diamino-6-hydroxy-pyrimidine food simulants efficient migration HPLC detection method.

This standard applies to food simulants distilled water, 3% (mass fraction) solution of acetic acid, 10% (by volume) ethanol, olive oil Determination of amino-6-hydroxy-2,4-pyrimidine.

Food simulant 3% (mass concentration) solution of acetic acid, 10% (volume fraction) ethanol solution of 2,4-diamino-6-hydroxy-pyrimidine of determination Limit. 1.0mg/kg, distilled water, 2,4-diamino-6-hydroxy-pyrimidine lower limit of detection. 2.0mg/kg, in olive oil diamino-6-hydroxy-pyrimidine Pyridine lower limit of detection. 2.5mg/kg.

## 2 Normative references

The following documents for the application of this standard 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.

GB/T 6682 analytical laboratory use specifications and test methods (GB/T 6682-2008, ISO 3696. 1987, MOD) GB/T 23296.1-2009 plastic food contact materials in plastics was limited in specific migration test substance to food and food simulants Experience and determination method and conditions of exposure to food simulants Guide selection



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## 3 Method summary

Food simulants 2,4-amino-6-hydroxy-pyrimidine separated by HPLC column using a diode array detectors Testing. Water-based food simulants after filtration membrane direct injection, olive oil food simulant by methanol extraction, membrane filtration backward like. External standard method Quantified.

## 4 Reagents and materials

Unless otherwise indicated, the reagents used were of analytical grade, water as a secondary water GB/T 6682 regulations.

4.1 2,4-diamino-6-hydroxy-pyrimidine (CAS Number. 56-06-4, molecular formula. CH6N4O), standard. 96% purity.

**4.2**
ammonium acetate.

**4.3**
Methanol. chromatographically pure.

**4.4**
glacial acetic acid.

**4.5**
ethanol.

**4.6**
olive oil.

4.7 10mmol/L ammonium acetate solution (pH 4). Weigh ammonium acetate (4.2) about 0.357g, with ultrapure water volume to 500mL, with ice B.

Acid (4.4) adjusted to pH 4 ± 0.2.



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