



GB/T XXXXX—XXXX

Determination of Plastic Microbead in Cosmetics (Draft for Comments)

化妆品中塑料微珠的测定(征求意见稿)

State Administration for Market Regulation,
Standardization Administration of the
People's Republic of China

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Translated by ChemLinked

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National Standard of the People's Republic of China

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State Administration for Market Regulation

Issued by

Standardization Administration of the People's Republic of China

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009 and GB/T 20001.4-2001.

This standard was proposed by and is under the jurisdiction of the National Technical Committee 374 on Test Methods of Key Products Subject to Quality Supervision and Administration of Standardization Administration of China (SAC/TC374).

This standard was drafted by Shenzhen Academy of Metrology & Quality Inspection and China Quality Testing Alliance ***.

The main drafters of this standard are as follows: ***.

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Warning: Use of this standard may involve in some dangerous materials, operations and apparatus, but proposals are not mentioned for all related safety problems in this standard. Users are obliged to formulate corresponding safety and protective precautions and confirm the restrictive applicability of relevant rules and regulations before using this standard.

1. Scope

This standard specifies the determination method of plastic microbead in cosmetics and the qualitative method is infrared spectroscopy.

This standard is applicable to the determination of plastic microbead in cosmetics and other daily chemical products can also refer to this standard.

2. Normative References

The following normative documents are indispensable for application of this document. For dated references, only the publications apply. For undated references, the latest edition of the normative documents (including all the amendments) referred to applies.

GB/T 603 *Chemical reagent—Preparations of reagent solutions for use in test methods*

GB/T 1914 *Chemical analytical filter paper*

GB/T 6040 *General rules for infrared analysis*

GB/T 6682 *Water for analytical laboratory use—Specification and test methods*

3. Terms and Definitions

The following terms and definitions apply to this standard.

3.1 Plastic microbead

It refers to the solid plastic particles in products, which is less than or equal to 5 mm and water insoluble. Types of the plastics that are contained in daily chemical products in the form of particles are as follows: polyethylene, polypropylene,

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polystyrene and so on. Possible types of plastics contained in the daily chemical products are given in Appendix B.

4. Method Overview

Dilute the sample with suitable solvent, conduct suction filtration by filter paper, and separate the plastic microbead from the cosmetics matrix. Finally, elute with a little absolute ethyl alcohol. Dry at $(60 \pm 2)^\circ\text{C}$ to constant weight and then conduct qualitative determination for the filter residue by using infrared spectroscopy.

5. Reagents and Materials

5.1 95% ethyl alcohol: analytically pure.

5.2 Absolute ethyl alcohol: analytically pure.

5.3 Deionized water: Grade III water.

5.4 Potassium bromide: analytically pure, dry for 1 h at 105°C before use.

5.5 Stainless steel mesh: bore diameter is 5 mm (about 4 meshes) and diameter is 10 cm.

5.6 Intermediate speed quantitative filter paper (90 mm): it shall meet the requirements in GB/T 1914.

5.7 Ethanol solution (1+2): add 50 mL of absolute ethyl alcohol (5.2) to 100 mL of deionized water (5.3).

5.8 Slow speed quantitative filter paper (90 mm): it shall meet the requirements in GB/T 1914.

5.9 Normal hexane: analytically pure.

6. Equipment and Apparatus

6.1 Fourier transform infrared spectrometer: wave number is between $400\text{ cm}^{-1} \sim 4,000\text{ cm}^{-1}$ (wave length is between $2.5\mu\text{m} \sim 25\mu\text{m}$).

6.2 Analytical balance: accurate to 0.0001 g.

6.3 Electric-heated thermostatic water bath.

6.4 Oven: temperature control range is between (indoor temperature – 120) $^\circ\text{C}$.

6.5 Agate mortar.



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