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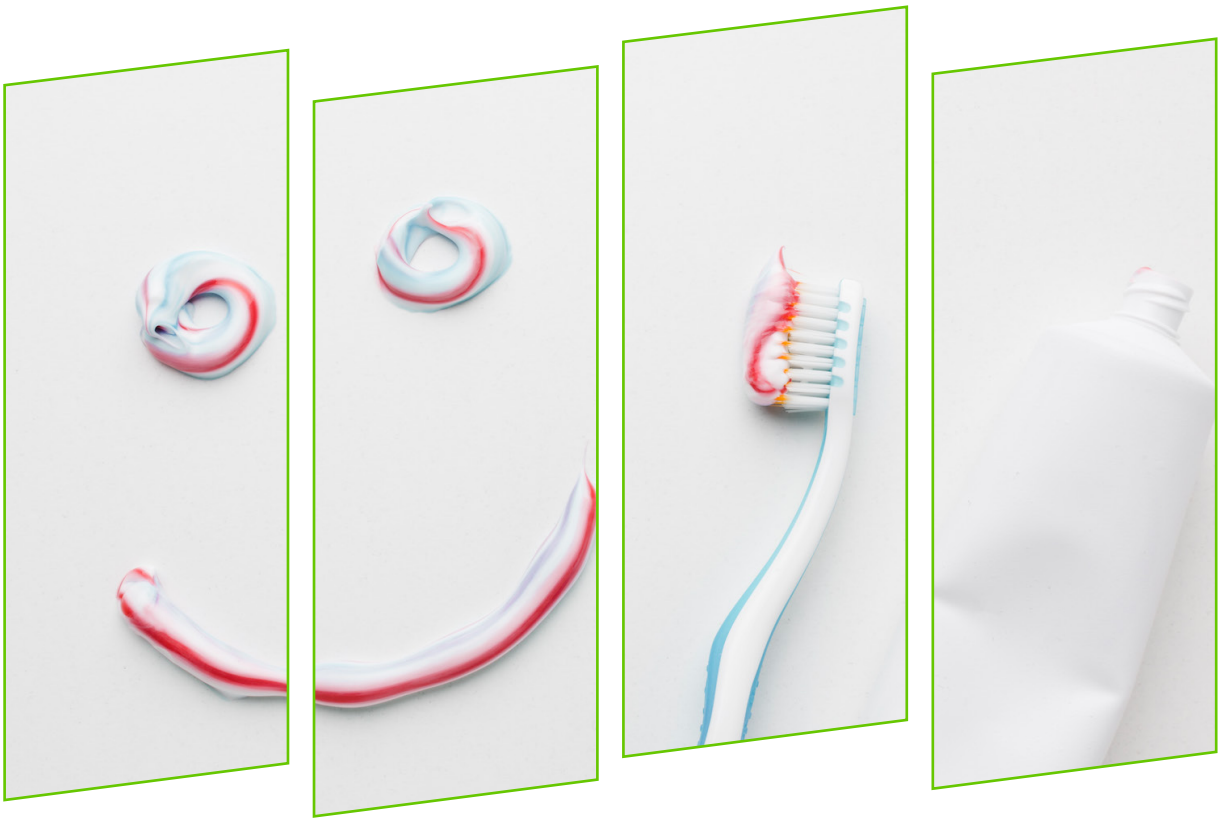

Determination of Diethylene Glycol and Glycol in Toothpaste (Draft for Comments) and Drafting Instructions

《牙膏中二甘醇和乙二醇的检验方法(征求意见稿)》及起草说明

National Institutes for Food and Drug Control

Release Date: Jan 22, 2025
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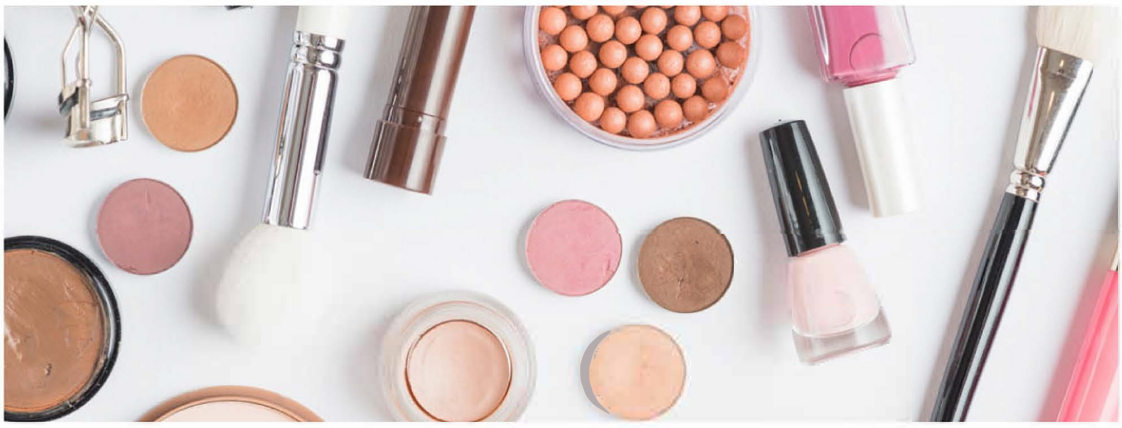

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Attachment 8

Determination of Diethylene Glycol and Glycol in Toothpaste (Draft for Comments)

1 Scope

This method specifies the determination of diethylene glycol and glycol content in toothpaste by gas chromatography (GC).

This method applies to the determination of diethylene glycol and glycol content in toothpaste.

2 Method Summary

After extraction, the sample is separated by a gas chromatograph and detected by a hydrogen flame ionization detector. It is then subject to qualitative analysis based on the retention time and quantitative analysis based on the peak area. The content is calculated using a standard curve method.

The limits of detection (LODs) of this method for diethylene glycol and glycol are both 1.5 ng, and the limits of quantification (LOQs) are both 5 ng. When the sampling amount is 1 g, the concentration of detection is 37.5 mg/kg, and the lowest concentration of quantification is 125 mg/kg.

3 Reagents and Materials

Unless otherwise specified, the reagents used in this method shall be analytically pure or of a higher specification and the water shall be Grade 1 water specified in *GB/T 6682*.

3.1 Methanol: chromatographically pure.

3.2 Sodium chloride.

3.3 Standard substances: refer to Annex A for the detailed information on glycol and diethylene glycol standard substances.

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附件 8

牙膏中二甘醇和乙二醇的检验方法（征求意见稿）

Determination of Diethylene Glycol and Glycol in Toothpaste (Draft for Comments)

1 范围

本方法规定了气相色谱法测定牙膏中二甘醇和乙二醇的含量。

本方法适用于牙膏中二甘醇和乙二醇含量的测定。

2 方法提要

样品提取后，经气相色谱仪分离，氢火焰离子化检测器检测，根据保留时间定性，峰面积定量，以标准曲线法计算含量。

本方法二甘醇和乙二醇的检出限均为 1.5 ng，定量限均为 5 ng。当取样量为 1 g 时，检出浓度均为 37.5 mg/kg，最低定量浓度均为 125 mg/kg。

3 试剂和材料

除另有规定外，本方法所用试剂均为分析纯或以上规格，水为 GB/T 6682 规定的一级水。

3.1 甲醇，色谱纯。

3.2 氯化钠。

3.3 标准品：乙二醇和二甘醇标准品信息详见附录 A。

3.4 高纯氮（99.999%）。

3.5 高纯氢（99.999%）。

3.6 无油压缩空气，经装 5 Å 分子筛的净化管净化。

3.7 混合标准储备溶液：称取乙二醇和二甘醇各 10 mg（精确至 0.0001 g）至 10 mL 容量瓶中，用甲醇（3.1）溶解并定容至刻度，配制成浓度为 1 g/L 的混合标准储备溶液，于 4 ℃保存 1 个月。

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