



Test Method for Hard Particles in Toothpaste (Draft for Comments) and Drafting Instructions

《牙膏中过硬颗粒的检验方法(征求意见稿)》
及起草说明

National Institutes for Food and Drug Control

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Attachment 9

Test Method for Hard Particles in Toothpaste (Draft for Comments)

1 Scope

This method specifies the test method for hard particles in toothpaste.

This method applies to the test of hard particles in toothpaste.

2 Method Summary

A hard particle tester is employed as the testing instrument, and glass slides are used as substitutes for teeth as the test materials for test of hard particles. The toothpaste test sample is subject to reciprocating friction under a certain pressure and friction frequency, and glass slides are observed for scratches.

3 Reagents

Unless otherwise specified, the water used in the method shall be Grade 1 water as specified in GB/T 6682.

4 Apparatus and Equipment

4.1 Hard particle tester (with the friction copper block being not skewed and block surface being flat and smooth, with a mass of $590 \text{ g} \pm 20 \text{ g}$, a reciprocating distance of $40 \text{ mm} \pm 10 \text{ mm}$, a reciprocating frequency of $60 \text{ times/min} \pm 2 \text{ times/min}$, and the size of the fixing slot matching the size of the glass slides).

4.2 Glass slides ($75 \text{ mm} \times 25 \text{ mm} \times 1 \text{ mm}$, Vickers hardness $5.4 \text{ GPa} \pm 0.5 \text{ GPa}$).

4.3 Analytical balance: with a sensitivity of 0.01 g .

4.4 Ruler: with a division value of 1 mm .

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附件 9

牙膏中过硬颗粒的检验方法（征求意见稿）

Test Method for Hard Particles in Toothpaste (Draft for Comments)

1 范围

本方法规定了牙膏中过硬颗粒的检验方法。

本方法适用于牙膏中过硬颗粒的检验。

2 方法提要

利用过硬颗粒测定仪作为测试仪器，载玻片作为代替牙齿的试验材料进行过硬颗粒检验，在一定的压力和摩擦次数下对牙膏试样进行往复摩擦，观察载玻片有无划痕。

3 试剂

除另有规定外，本方法所用水为 GB/T 6682 规定的一级水。

4 仪器和设备

4.1 过硬颗粒测定仪（摩擦铜块不歪斜，其表面应平整光滑，质量 $590\text{ g} \pm 20\text{ g}$ ，往复的距离 $40\text{ mm} \pm 10\text{ mm}$ 、往复的频率 $60\text{ 次/min} \pm 2\text{ 次/min}$ ，固定槽的尺寸应与载玻片的尺寸匹配）。

4.2 载玻片（ $75\text{ mm} \times 25\text{ mm} \times 1\text{ mm}$ ，维氏硬度 $5.4\text{ GPa} \pm 0.5\text{ GPa}$ ）。

4.3 分析天平：感量为 0.01 g 。

4.4 直尺：分度值为 1 mm 。

5 分析步骤

5.1 载玻片的前处理

用水将载玻片冲洗干净，晾干或烘干后剔除有划痕的载玻片，备用。

5.2 测定

称取样品 5 g （精确至 0.01 g ）于无划痕的载玻片中间，将载玻片放入测定仪的固定槽内，使铜块位置处于样品正上方，压上摩擦铜块，启动开关，使铜块往复摩擦 100



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