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**Change to read:**

## Zinc Oxide <sup>▲</sup>Compounded <sub>▲</sub> (USP 1-May-2019) Paste

### DEFINITION

**Change to read:**

Zinc Oxide <sup>▲</sup>Compounded <sub>▲</sub> (USP 1-May-2019) Paste contains NLT 24.0% and NMT 26.0% of zinc oxide (ZnO). Prepare Zinc Oxide

<sup>▲</sup>Compounded <sub>▲</sub> (USP 1-May-2019) Paste as follows.

Zinc Oxide	250 g
Starch	250 g
White Petrolatum	500 g
To make	1000 g

Mix the ingredients.

### IDENTIFICATION

- **A.** The residue obtained in the Assay is yellow when hot and white when cool.

### ASSAY

**Change to read:**

#### • PROCEDURE

**Sample solution:** Transfer 600 mg of Paste to a porcelain crucible. Heat gently until melted, and continue heating, gradually raising the temperature until the mass is thoroughly charred. Ignite the mass until the residue is uniformly yellow, and cool. Dissolve the residue in 10 mL of 2 N sulfuric acid, warming if necessary to dissolve.

#### Titrimetric system

<sup>▲</sup>(See [Titrimetry \(541\)](#).) <sub>▲</sub> (USP 1-May-2019)

**Mode:** Direct titration

**Titrant:** 0.05 M edetate disodium VS

**Endpoint detection:** Visual

**Analysis:** Transfer the *Sample solution* to a beaker, and rinse the crucible with small portions of water until the combined solution and rinsings measure 50 mL. Add 15 mL of ammonia–ammonium chloride buffer TS and 1 mL of eriochrome black TS, and titrate with *Titrant* until the solution is blue in color. Each milliliter of *Titrant* is equivalent to 4.069 mg of zinc oxide (ZnO).

**Acceptance criteria:** 24.0%–26.0%

### PERFORMANCE TESTS

- **MINIMUM FILL (755):** Meets the requirements

### ADDITIONAL REQUIREMENTS

- **PACKAGING AND STORAGE:** Package in well-closed containers, and avoid prolonged exposure to temperatures exceeding 30°.

**Auxiliary Information** - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
ZINC OXIDE COMPOUNDED PASTE	<a href="#">Brian Serumaga</a> Science Program Manager	CMP2020 Compounding 2020
REFERENCE STANDARD SUPPORT	RS Technical Services <a href="mailto:RSTECH@usp.org">RSTECH@usp.org</a>	CMP2020 Compounding 2020

Chromatographic Database Information: [Chromatographic Database](#)

**Most Recently Appeared In:**

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