

# Certificate of Analysis

## Sulkowitch Reagent, for Qualitative Detection of Calcium in Urine

**Lot Number:** 1401F09

**Product Number:** 8360

**Manufacture Date:** JAN 15, 2024

**Expiration Date:** DEC 2025

For In Vitro Diagnostic Use. This product is suitable for use in the qualitative rapid screening for Calcium in urine. Mix equal volumes of this reagent and an aliquot from a well-mixed 24-hour urine specimen in a test tube or other appropriate container. No precipitation indicates subnormal Calcium excretion and a probable serum Calcium level below 7.5 mg/dL. Fine precipitation or moderate turbidity indicates normal Calcium excretion. Heavy precipitation or a milky solution indicates hypercalcinuria and a probable serum Calcium level above 11.5 mg/dL (hypercalcemia). Proper functioning of this reagent can be checked by adding and mixing 1 or more drops of a 0.01 Molar Calcium standard with the urine sample and this reagent; this should result in increased precipitation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Acetic Acid	64-19-7	ACS
Oxalic Acid Dihydrate	6153-56-6	ACS
Ammonium Oxalate	6009-70-7	ACS

Test	Specification	Result
Appearance	Colorless liquid	Passed

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
8360-16	500 mL natural poly	24 months

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)



Heidi J Green (01/15/2024)

Operations Manager

This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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