

# Certificate of Analysis

## Digestion Reagent, with Copper Catalyst for Kjeldahl Nitrogen Analysis

**Lot Number:** 1401D63

**Product Number:** 2551

**Manufacture Date:** JAN 10, 2024

**Expiration Date:** DEC 2025

Certified suitable for use as Digestion Reagents in the APHA Standard Methods for the Examination of Water and Wastewater Methods 4500-Norg B, Macro-Kjeldahl Method for Organic Nitrogen, and 4500-Norg C, Semi-Micro-Kjeldahl Method for Organic Nitrogen. This product is a modified and improved formulation of the digestion reagent specified in these procedures.

Since this product is close to saturation, store above 20°C (68°F) to prevent crystallization. Crystallization during cool storage or shipment is not unusual and will not prevent the product from working properly. The crystals will redissolve if the solution and crystals are gently heated and stirred at approximately 55°C (131°F).

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sulfuric Acid	7664-93-9	ACS
Potassium Sulfate	7778-80-5	ACS
Copper Sulfate Pentahydrate	7758-99-8	ACS

Test	Specification	Result
Appearance	Light blue liquid	Passed

Specification	Reference
Digestion Reagent	APHA (4500-Norg C)
Digestion Reagent	APHA (4500-Norg B)

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)
2551-1	4 L natural poly	24 months
2551-16	500 mL natural poly	24 months

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



Heidi J Green (01/10/2024)

Operations Manager

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

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