

# Certificate of Analysis

## Glucose-Glutamic Acid Solution, Standard Check Solution for Biochemical Oxygen Demand (BOD)

**Lot Number:** 2402C21**Product Number:** 3255**Manufacture Date:** FEB 22, 2024**Expiration Date:** JAN 2026

For use as a standard check solution in APHA Method 5210 B, dilute this standard to 2% of its concentration. For a standard 300 mL BOD bottle, this will require 6 mL of this standard.

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the standard deviation based on APHA (Standard Methods) interlaboratory studies and is recommended by APHA as a control limit for laboratories.

Refrigerate this solution after opening. Discard 30 days after opening.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
L-Glutamic Acid	56-86-0	Reagent
Glucose	50-99-7	ACS

Test	Specification	Result
Appearance	Colorless liquid	Passed
Biochemical Oxygen Demand (BOD)	167.5-228.5 mg/L	190.6 mg/L

Specification	Reference
Glucose-Glutamic Acid Solution	APHA (5210 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)
3255-16	500 mL amber glass	24 months
3255-32	1 L amber glass	24 months
3255-4	120 mL amber glass	24 months

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



Jose Pena (02/22/2024)

Operations Manager

This document is designed to comply with ISO Guide 31 "Reference Materials --  
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