1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

## Certificate of Analysis

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

Lot Number: 2311G42 Product Number: 3255

Manufacture Date: DEC 01, 2023

Expiration Date: OCT 2025

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 | 213.0 mg/L |

| Specification | Reference |
|---------------|-----------|
|               |           |

Glucose-Glutamic Acid Solution

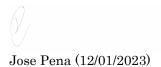
APHA (5210 B)

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)

Version: 1.5 Lot Number: 2311G42 Product Number: 3255 Page 1 of 2



Operations Manager

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

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Page 2 of 2  $\textbf{Lot Number:}\ 2311G42$ Product Number: 3255Version: 1.5