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Product # 159A

CERTIFICATE OF ANALYSIS  
GLUTAMATE DEHYDROGENASE from *C. DIFFICILE*  
Lot # 1591A2

**Contents**

Each vial contains 0.1 mg of Glutamate Dehydrogenase (GDH) from *C. difficile* in D-PBS, pH 7.1 (Embryo Max®, EMD Millipore) at a concentration of 1 mg/ml. **Handle the product gently, do no vortex.**

**Concentration**

The EMD Millipore Direct Detect™ infrared (IR)-based quantification system, using NIST traceable bovine serum albumin as a standard, was used to determine the concentration.

**Purity**

When examined on 4-12% SDS-PAGE gels, this product migrates as a single major band with an apparent molecular weight of approximately 46,000 Da. The protein purity is > 95% based on densitometric analysis. The endotoxin content, determined using a kinetic chromogenic LAL assay, is <45 EU/mg.

**Activity**

GDH activity was determined using a glutamate dehydrogenase activity assay kit (Sigma, MAK099). Briefly, the activity is measured using a coupled enzyme assay where NADH is generated when glutamate is consumed by GDH. The NADH reacts with a probe which is monitored at 450 nm. The activity for this lot at pH 7.6 and 37°C is approximately 30 μmoles NADH/min/mg GDH.

**Packaging and Storage**

This product is supplied as an aseptically packaged liquid. Store at 2-8°C. To ensure recovery of vial contents, centrifuge before opening. Aseptic handling is recommended, no preservatives have been added to the product.

**Handling**

This product is not known to be hazardous. Good laboratory technique should be employed in the safe handling of this product. Wear appropriate laboratory attire including a lab coat, gloves and safety glasses.

This product is intended for research purposes only. It is not intended for use in humans or as a diagnostic agent. List Biological Laboratories, Inc. is not liable for any damages resulting from the misuse or handling of this product.

**FOR RESEARCH PURPOSES ONLY. NOT FOR HUMAN USE.**

QA/QC: KPD Date: 01/22/2021

Made in U.S.A. 