

# **Certificate of Testing**

## Anthrax Protective Antigen (PA) from Bacillus anthracis

Prod. No:

171E

Lot Number:

17121A3

**Date of Manufacture** 

28 May 2025

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN USE.

#### **Contents**

Each container holds 0.5 mg of lyophilized Anthrax Protective Antigen (PA) in 5 mM HEPES, 0.05 M NaCl, pH 7.5 when reconstituted with 0.5 mL water. **Handle the product gently; do not vortex.** 

### **Storage/Shipping Requirements**

Store at  $5 \pm 3$  °C. This product is provided as an aseptically packaged lyophilized powder, sealed under vacuum. Ship material at ambient temperature.

#### **Handling**

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.

The product is intended for research purposes by qualified personnel. 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.

Attribute	Test Method ID/Version	Results
Appearance	Physical Appearance / ASSAY.063 v6.0	Before reconstitution: uniform white pellet. After reconstitution: clear, colorless, and particulate free.
Purity	SDS-PAGE / GELS.018 v19.0	%purity = 96%
	OD Measurement / ASSAY.060 v7.0	$A_{280}/A_{260} = 1.92$ $A_{320} = 0.02$
Potency	Endotoxin / ASSAY.092 v7.0	<0.050 EU/mg
Activity	Cytotoxic Activity; PA alone on J774A.1 cell culture / ASSAY.062 v3.0	No cell death at highest concentration of PA tested at 1,088,613 pM
	Cytotoxic Activity; PA with 1µg/mL of Anthrax Lethal Factor on J774A.1 cell culture / ASSAY.062 v3.0	Cytotoxicity EC <sub>50</sub> = 1.96 ng/mL

Quality Control:	The same of the sa	Date: 12/19/2025
Production:	Ledel Christin	Date: 12   19   2075

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