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Product #187
Lot #1876A1
Release Date: December 2019

CERTIFICATE OF ANALYSIS
PERTACTIN (69 kDa Protein)
From *Bordetella pertussis*
Lot #1876A1

Contents

Each vial, when reconstituted with 500 μ l of water, contains 50 μ g of Pertactin in 5 mM HEPES, 150 mM NaCl, pH 7.5 and 1.25% Trehalose. **Handle product gently, do not vortex.**

Concentration

A modification of the method of Bradford,¹ using NIST traceable bovine serum albumin as the standard, is used to determine the protein concentration.

Purity/Identity

When examined on 4-12% SDS-polyacrylamide gel, this preparation migrates as a single major band with an apparent molecular weight of 69,000 Da. Densitometric analysis estimates the purity as >95%.

In Western Blot assays, this product reacts with anti-Pertactin antibodies.

The endotoxin content, determined using a kinetic chromogenic LAL assay, is ~ 5 EU/mg.

Toxicity

Pertactin is not known to be toxic and is a component of several acellular pertussis vaccines in the amount of up to 8 μ g per injection.²

Packaging and Storage

This product is supplied as a lyophilized powder, sealed under vacuum. Store at 2-8°C prior to reconstitution.

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. Nitrile gloves are recommended for use when handling lyophilized material.

This 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.

FOR RESEARCH PURPOSES ONLY. NOT FOR HUMAN USE

References

1. Bradford, M.M. (1976) *Anal. Biochem.* **72**, 248 – 254.
2. Poolman, J.T. and Hallander, H.O. (2007) *Expert Rev. Vaccines* **6**, 47-56.

Quality Assurance: 

Date: 24 JUN 2021