b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-31826

Bordetella pertussis Toxin, Salt-free

Catalog No. NR-31826

This reagent is the property of the U.S. Government.

Product Description: *Pertussis* toxin was purified from the supernatant of a culture of *Bordetella pertussis*.

Lot: 60335831 **Manufacturing Date: 23JUN2011**

TEST	SPECIFICATIONS	RESULTS
SDS-PAGE	Report results	Five distinct bands present as expected[2]
Concentration by Modified Bradford Assay[1]	Report results	50 µg per vial
Endotoxin Content	Report results	Acceptable
Functional Activity CHO cell assay (lowest concentration capable of inducing clustered growth pattern response)[3] Adenylate cyclase activity in the presence of 1 µM calmodulin[4]	 Report results Report results	 0.1 ng/mL 17.2 pmol/min/µg

[1]Using BSA as a standard

[2]Tamura, M., et al. "Subunit Structure of Islet-activating Protein, Pertussis Toxin, in Conformity with the A-B Model." Biochemistry 21 (1982): 5516-5522. PubMed: 6293544.

[3]Hewlett, E. L., et al. "Induction of a Novel Morphological Response in Chinese Hamster Ovary Cells by Pertussis Toxin." Infect. Immun. 40 (1983): 1198-1203. PubMed: 6682833.

[4]Wolff, J., et al. "Calmodulin Activates Prokaryotic Adenylate Cyclase. Proc. Natl. Acad. Sci. U.S.A. 77 (1980): 3841-3844. PubMed: 6253992.

Date: 29 NOV 2011 **Signature:** Dorothy C. Young

Title: Technical Manager, BEI Authentication or designee

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contractor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

Support Provided by NIAID

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