Certificate of Analysis for NR-9356

Polyclonal Anti-*Clostridium botulinum* Neurotoxin D Heavy Chain Fragment (antiserum, Goat (D-2))

Catalog No. NR-9356

Product Description: Polyclonal antiserum to *Clostridium botulinum* (*C. botulinum*) neurotoxin was produced by immunization of a goat (D-2) with carboxy-terminal heavy chain fragments of botulinum neurotoxin (BoNT) serotype D. The serum consists of a pool of bleeds obtained throughout the immunization protocol from a single animal. NR-9356 has not been sterile-filtered.

Lot: 58133752 **Manufacturing Date: 13NOV2005**

TEST	SPECIFICATIONS	RESULTS
Functional Activity		
Western blot[1,2]		
C. botulinum neurotoxin type D toxoid	Reactive	Reactive
Bovine serum albumin (BSA)	Not reactive	Not reactive
ELISA assay[3,4]	Reactive	Reactive
Concentration (Bradford assay with BSA as standard)	Report results	52.3 mg/mL
Sterility	Report results	Low bioburden

[1]Recommended dilution for western blot is 1:1000
[2]Toxoid monomer is ~ 150 kDa. The procedure for generating toxoid results in monomer, dimer and trimer forms.
[3]Recommended dilution for ELISA is > 1:2000
[4]Assay completed at Batelle Biomedical Research Center

Date: 09 JUL 2008 **Signature:** Signature on File

Title: Technical Manager, BEI Authentication or designee

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