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CERTIFICATE OF ANALYSIS Botulinum Neurotoxin Type B GST Heavy Chain Binding Domain Lot # 6231A1

Contents:

Each vial of recombinant GST Botulinum Neurotoxin Type B Heavy Chain Binding Domain (GST-HccB) contains 50 μ g of lyophilized protein. When reconstituted with 140 μ l of sterile distilled water, each vial contains 50 μ g of GST-HccB in 20 mM HEPES, pH 7.4 + 1.25% lactose. The protein was recombinantly expressed in *E. coli* and purified using affinity and anion exchange chromatography.

Molecular Weight:

GST-HccB is 673 amino acids in length. This product contains an N-terminal GST tag and amino acids 858-1291 of the Botulinum Neurotoxin Type B Okra Strain. The molecular weight of the protein is approximately 79.8 kD.

Concentration:

Protein concentration was determined by a modification of the Bradford¹ method using bovine serum albumin as a standard.

Gel Electrophoresis:

This product migrates as a single major band on 4-12% SDS polyacrylamide gels with an apparent molecular weight of 80 kD. The protein is greater than 90% pure based on densitometry.

Activity:

GST-HccB is highly reactive to Anti-Botulinum Type B antibodies in a Western Blot. GST-HccB was tested in an ELISA assay using GT1b and the receptor domain of Synaptotagmin II. The midpoint of the binding curve of GST-HccB to Synaptotagmin II was 0.4 ng. The midpoint of the binding curve of GST-HccB to GT1b was 12 ng.

(continued)



Packaging and Storage:

This product is supplied as a lyophilized powder which has been stoppered under vacuum. Reconstitution of the powder should be done with syringe through the rubber stopper to avoid any loss of material. Store lyophilized vials at 4°C. Once dissolved, aliquot and store at -20°C. Refrain from multiple freeze/thaw cycles.

Toxicity:

GST-HccB is only a fragment of the Botulinum toxin and is thus non-toxic.

Handling:

Good laboratory technique should be employed in the safe handling of this product. This requires observing the following practices:

- 1. Wear appropriate laboratory attire including a lab coat, gloves and safety glasses.
- Do not mouth pipette, inhale, ingest or allow to come into contact with open wounds. Wash thoroughly any area of the body which comes into contact with the product.
- 3. Avoid accidental autoinoculation by exercising extreme care when handling in conjunction with any injection device.
- 4. This product is intended for research purposes by qualified personnel 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.

References:

1.	Bradford,	M.M.	(1976) Anal.	Biochem.	72,	248-2	54.
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