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CERTIFICATE OF ANALYSIS
ANTI – BOTULINUM NEUROTOXIN TYPE A, IgY
Lot #7303A1

Contents

Each vial of antibody contains 0.1 mg of affinity purified, egg derived, chicken IgY in PBS, pH 7.4 with 0.075% azide. The antibodies were raised against the Heavy Chain binding domain of Botulinum Neurotoxin Type A, (BoNT/A HccA , Product #612).

Concentration

1mg/ml

Tested Applications

Western Blot - A 1:2,000 dilution of the antibody was an effective probe for 1µg of unreduced Botulinum Type A holotoxin, (BoNT/A, Product #130) or BoNT/A HccA (Product #612).

Direct ELISA - a dilution of 1:15,000 was sufficient to detect a 2 µg coating of BoNT/A HccA (Product #612).

Each laboratory should determine an optimum working titer for use in its particular application.

Other Potential Applications

Sandwich ELISA - The chicken Anti-Botulinum Neurotoxin Type A, IgY can be paired with the Anti-Botulinum Neurotoxin, Type A monoclonal, F1-40 (Product #731), to detect low levels of the BoNT/A (Product #130). For example, a 1 µg coating of the F1-40 monoclonal followed by exposure to BoNT/A and a 1:1000 dilution of the chicken Anti-Botulinum Neurotoxin Type A, IgY has given a midpoint of approximately 40 ng/ml. As low as 1 ng/ml of antigen can be readily detected using a standard chromogenic substrate.

HPLC detection assay – A sensitive assay using the chicken Anti-Botulinum Neurotoxin Type A, IgY to capture BoNT/A has been developed. The amount of BoNT/A captured is measured by monitoring the cleavage of the FRET BoNT/A substrate, SNAPtide® (Product #520). The generation of cleaved peptide is monitored using reverse phase HPLC and sensitive detection is accomplished using a fluorescence detector. This assay is described on the poster entitled "Sensitive Detection of Botulinum Neurotoxin Type A using High Affinity Polyclonal Antibodies", available on our website: www.listlabs.com under "Posters."

Packaging and Storage

This product is supplied as a liquid. Store the product at 2-8°C. To ensure recovery of vial contents, centrifuge before opening.

Handling

This product is not known to be hazardous. 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.

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.

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