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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](http://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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