

CERTIFICATE OF ANALYSIS BOTULINUM NEUROTOXIN TYPE A from Clostridium botulinum, 100µg precipitate Lot #13032A6

Contents

Each vial contains 100 μg of Botulinum Neurotoxin Type A (BoNT/A). The pellet containing the BoNT/A is recovered by centrifugation at 14,000 x g for 15-20 minutes at 2-8°C. The precipitate is solubilized in a buffer of choice and at the desired concentration. The solution may be stored at 2-8°C. After reconstituting the precipitate, handle the product gently; mix by inversion, do not vortex.

Concentration

The amount of protein in each vial was determined by absorbance at 280 nm using an extinction coefficient of 1.63¹ for a 1 mg/ml solution after recovery and resolubilization of the ammonium sulfate precipitate.

Gel Electrophoresis

When examined on 4-12% SDS-PAGE, this protein migrates as a single major band with an apparent molecular weight of approximately 150,000 daltons. In the presence of a reducing agent, the preparation migrates as two bands with apparent molecular weights of 100,000 and 50,000 daltons.

<u>Purity</u>

The non-reduced product migrates as one major band when examined by SDS-PAGE. The purity is >95%. The absorbance ratio (OD₂₆₀/OD₂₈₀) of this preparation is 0.5.

Toxicity

Toxicity testing has not been done on this lot. Botulinum toxin is the most deadly bacterial toxin known to man. The minimum lethal dose (LD₁₀₀) in mice is estimated at 1.2 ng/kg, i.p. Humans are said to be at least as sensitive as mice.² Consult the SDS for further information.

Storage

This product is supplied as an ammonium sulfate pellet. Store at 2-8°C. (continued)

Handling

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

- 1. Persons handling this product and contaminated glassware should consult the current version of the Biosafety in Microbiological and Biomedical Laboratories.3
- 2. This product is to be used by skilled personnel under the direction of a principal investigator in an appropriate laboratory.
- 3. Wear appropriate attire, i.e., labcoat, eye protection and gloves.
- 4. Do not mouth pipette, inhale, inqest or allow to come into contact with open wounds. Wash thoroughly any area of the body which comes into contact with the product.
- 5. Avoid accidental autoinoculation by exercising extreme care when handling in conjunction with any injection device.
- 6. This product is intended for research purposes 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 USE IN HUMANS.

References

- 1. Sathyamoorthy, V. and DasGupta, B.R. (1985) J. Biol. Chem. 260, 10461-10466.
- 2. Gill, D.M. (1982) Microbiol. Rev. 46, 86-94.
- 3. Biosafety in Microbiological and Biomedical Laboratories. U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institutes of Health.

QA/QC: <u>KPD</u> Date: <u>01|29|</u>202|

Made in U.S.A.

