

**Data sheet** *Clostridium botulinum D* Antitoxin

Benten Biotech SRL  
Parque Tecnológico- LATU.  
Montevideo, Uruguay  
CP 11500

**1. Reagent name:** *Clostridium botulinum D* Antitoxin

**2. Strain or resource:** Not apply

**3. Lot number:** ACBD 001/19A

**4. Fill date:** Sep. 2019

**5. Expiration date:** The expiration date was not evaluated. According to the literature, the toxin is very stable and could be active for several years.

**Precautions:** This reagent does not represent a risk for laboratory personnel working with the toxin if fundamental laboratory techniques are followed.

**6. Intent to use:** Used as a standard antitoxin when evaluating *C. botulinum D* toxin in the neutralization test in mice.

**7. Instruction for use:** *Clostridium botulinum D* ACBD 001/19A antitoxin contains 90 units of antitoxin per ml (IU / ml). The ACBD 001/19A lyophilized antitoxin vial is reconstituted with 2.0 ml of peptone diluent (1.0% peptone, 0.25% NaCl, pH 7.2).

The toxin neutralization test uses a standard antitoxin dilution containing 1 unit antitoxin per ml (IU/ml). The dilution is prepared by adding 1 ml of ACBD 001/19A in 89 ml of peptone diluent. The antitoxin dilution is stable stored at -20 °C.

**8. Reagent test:**

Determination of antitoxin titer- Antitoxin titer was determined by injecting 16-20 g mice intravenously with 0.2 ml volume of diluted antitoxin mixed with 1 dose of L + toxin (the least amount of toxin when mixed with 1 unit of antitoxin, causes death in at least 80% of animals in 72 hours) and 1 dose of Lo of toxin (the highest amount of toxin that, when mixed with 1 unit of antitoxin, does not cause animal death within 72 hours). The antitoxin titer ACBD 001/19A was confirmed by comparing in parallel with the *Clostridium botulinum D* international antitoxin standard.

*Sterility test:* For the *Clostridium botulinum D* antitoxin, the absence of viable bacteria and fungi was analyzed according to the procedures described in 9 CFR (USA).

**9. Container size, type, weight or volume:** 10 mL vial containing 2 ml of lyophilized antitoxin.

**10. Storage conditions:** store at-20 °C.

**11. Technical contact Benten Biotech:** Quality Control Section, +59899178546.

**12. Origin and history of passage:** Not applicable.

**13. Preparation method:** Rabbits without a history of Clostridial vaccination received multiple injections of commercially prepared toxoid and *Clostridium botulinum D* toxin over a period of two months. The antitoxin was filtered by 0.2 µm (Sartorius membrane), thimerosal was added as a preservative and it was lyophilized in the Christ equipment.

**14. Others:** Transport on dry ice.

Reagent requests and comments should be sent to the following email: [info@bentenbiotech.com](mailto:info@bentenbiotech.com)

**REVISED:** Sep 2019.