

Data sheet *Clostridium perfringens* Type A (alpha) Antitoxin

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

1. Reagent name: *Clostridium perfringens* Type A (alpha) Antitoxin

2. Strain or resource: Not apply

3. Lot number: ACPA 001/18

4. Fill date: Oct. 2018

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 *Clostridium perfringens* Type A toxin in the neutralization test in mice.

7. Instruction for use: *Clostridium perfringens* A (alpha) ACPA 001/18 antitoxin contains 2 units of antitoxin per ml (IU/ml). The ACPA 001/18 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 ACPA 001/18 in 1 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 ACPA 001/18 was confirmed by comparing in parallel with the *Clostridium perfringens* A international antitoxin standard.



Sterility test: For the *Clostridium perfringens A* 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 *C. perfringens A* 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

REVISED: August 2019.