

Alpha recombinant toxin *Clostridium septicum*

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

1. Reagent name: Alpha recombinant toxin *Clostridium septicum* (TCSer)

2. Strain or resource: *E. coli*

3. Lot number: 001/23

4. Fill date: October 2023

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. Intended to use: Used as a standard toxin when evaluating *C. septicum* (alpha) toxin in the neutralization test in mice.

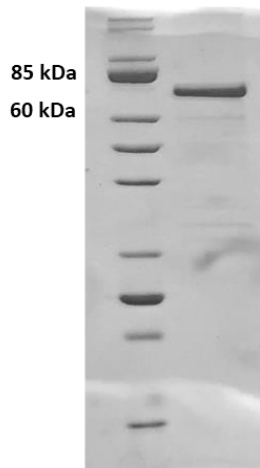
7. Instruction for use:

Mouse assay: The L+ dose TCSer 001/23 is 4 ug/mL and the Lo dose is 2 ug/mL considered the standard toxin concentration when conducting toxin-neutralization tests in mice .

8. Reagent test:

Determination of toxin titer- Doses Lo and L+ were established by injecting mice intravenously with 0.2 mL of a mixture of varying amounts of TCSer 001/23 combined with 1 international unit (IU) of *C. septicum* antitoxin. Dose 1 Lo for the *C. septicum* antitoxin-toxin neutralization test is the highest amount of toxin that can be mixed with 1 IU antitoxin and not cause death in injected mice within 72 hours. The 1 L + dose for the *C. septicum* antitoxin-toxin neutralization test is the minimum amount of toxin that can be mixed with 1 IU of *C. septicum* antitoxin and cause death in at least 80% of mice injected into the 72 hours.

Purity: >95%, by SDS-PAGE



1: Alpha recombinant toxin *Clostridium Septicum* (3ug/well).

Sterility test: For the *Clostridium Septicum* recombinant toxin, the absence of viable bacteria and fungi was analyzed according to the procedures described in 113.26 9 CFR (USA).

9. Container size, type, weight or volume: One vial containing 0,5mL of recombinant toxin at 1 mg/mL.

10. Storage conditions: store at -80 °C.

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

12. Origin and history of passage: *E. coli*-derived *Clostridium Septicum* (Alpha) toxin originated by DNA recombinant technology.

13. Preparation method: *Clostridium Septicum* (Alpha) toxin was produced in *E.coli* as a recombinant Thioredoxin fusion protein, with a C-terminal His-tag and avitag and purified by affinity chromatography.

14. Other: Transport according to UN3172 (Biological Toxins).

Reagent orders and feedback to the following email address:
info@bentenbiotech.com

REVISED: October 2023