PRODUCT SPECIFICATION

POL 005 Anti Botulinum Toxin E
Rabbit polyclonal antibody

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<td>POL 005 Anti Botulinum Toxin E</td>
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**Description**
- **Preparation:** Sterile filtered, 0.22 μm pore size
- **Content:** 1 ml -10 mg/mL IgG
- **Solvent:** Serum with 15 mM NaN₃
- **Storage:** 2-8 ºC

**Antigen**
- The toxins produced by various strains of *Clostridium botulinum* are the strongest biotoxins known. In humans these toxins are responsible for food poisoning (botulism) caused by the growth of the bacterium under anaerobic conditions e.g. in canned food.
- The poisoning manifests itself as a symmetrical paralysis culminating in death caused by respiratory failure.
- The toxins are produced as binary proteins that possess a heavy chain (approximately 100 kDa) and a light chain (approximately 50 kDa). The heavy chain is a binding component that directs the toxin to vulnerable cells, and the light chain is an enzyme that has mono(ADP-ribosyl)ating activity (1).
- The toxins are divided into 7 groups named A, B, C, D, E, F, and G where A, B, E, and F are associated with human disease and C and D mainly with disease in animals (cattle).
- Type G is not known to cause human disease.

**Immunogen**
- Type E botulinum toxin treated with formaldehyde for detoxification.

**Specificity**
- In an ELISA testing against botulinum toxin A through F, this serum reacts with toxin type E as well as type F and it has weak cross reactivity with type B toxin.

**Epitope Specificity**
- Not determined.

**Reactivity**
- In a Botulinum toxin type E ELISA coated with 0.1 μg toxin/well the titre of this serum is 1:200 – 1:400.

**Immunization**
- Rabbits were subcutaneously immunized with toxoid together with Freund's complete adjuvant and Al(OH)₃ initially and then likewise but with Freund's incomplete adjuvant in subsequent immunizations.

**Application**
- **Method**
  - ELISA: yes
  - Immunoblotting: nd.
  - Immuno fluorescence: nd.

**References**