C. tetani Tetanus Toxoid Antigen

DAG2692  Clostridium tetani(C. tetani)
Lot. No. (See product label)

PRODUCT INFORMATION

Product overview: Tetanus Toxoid Antigen is highly purified Tetanus Toxin from Clostridium tetani, which following the purification process has been detoxified by formaldehyde.

Antigen Description: Tetanus toxin is an extremely potent neurotoxin produced by the vegetative cell of Clostridium tetani in anaerobic conditions, causing tetanus. It has no known function for clostridia in the soil environment where they are normally encountered. It is also called spasmogenic toxin, tetanospasmin or abbreviated to TeTx or TeNT. The LD50 of this toxin has been measured to be approximately 1 ng/kg, making it second only to Botulinum toxin D as the deadliest toxin in the world. However, these tests are conducted solely on mice which may react differently to certain toxins than humans and other animals.

Source: Clostridium tetani

Species: Clostridium tetani(C. tetani)

Form: Liquid, 100ug/ml

Purity: 100%

Notes:
1. The concentration of formaldehyde is ≤ 54 mg/l
2. The product is supplied in 10 ml capped vials. Smaller volumes cannot be supplied

PACKAGING

Stability: 2 years stability from filling date

Storage: Storage temperature is 2-8°C and shipped at ambient temperature

Buffer: saline

BACKGROUND

Introduction: Tetanus toxoid is derived from the toxin released by Clostridium Tetanis that causes the disease tetanus. It is used as a vaccine to prevent tetanus or to help boost the immune response to other vaccines. A toxoid is a substance that has been treated to destroy its toxic properties but that retains the capacity to stimulate production of antitoxins, used in immunization. Tetanus toxoid is produced by formaldehyde inactivation of pure neurotoxin. Each lot is verified to be non toxic. In addition to being a potent antigen, tetanus toxoid is a useful carrier protein for making polysaccharides and haptens immunogenic.

Keywords: Tetanus Toxoid; Clostridium tetani toxoid; Tentoxylysin; Tetanus toxin; tetX

REFERENCES
