

Beta Toxin, from *Clostridium perfringens*

Catalog No. NR-10359

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Contributor:

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Product Description:

Beta toxin is produced by type B and type C strains of *Clostridium perfringens* (*C. perfringens*) and causes very serious, often fatal, disease in livestock.

Beta toxin was purified from culture supernatants of *C. perfringens* type C, strain CN3685 using ion exchange chromatography. The protein is suitable for western blots and cytotoxicity assays.

Material Provided:

Each vial of NR-10359 contains approximately 20 µg of beta toxin suspended in 300 mM Tris-HCl (pH 7.5) and 100 mM NaCl. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-10359 was packaged aseptically in plastic cryovials. The product is provided frozen on dry ice and should be stored at -80°C or colder immediately upon arrival. Repeated freeze-thaw cycles should be avoided.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Beta Toxin, from *Clostridium perfringens*, NR-10359."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm.

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References:

1. Fisher, D. J., et al. "Dissecting the Contributions of *Clostridium perfringens* Type C Toxins to Lethality in the Mouse Intravenous Injection Model." Infect. Immun. 74 (2006): 5200–5210. PubMed: 16926413.
2. Vidal, J. E., et al. Effects of *Clostridium perfringens* Beta-Toxin on the Rabbit Small Intestine and Colon." Infect. Immun. 76 (2008): 4396–4404. PubMed: 18625730.
3. Nagahama, M., et al. "Involvement of Tumour Necrosis Factor-Alpha in *Clostridium perfringens* Beta-Toxin-Induced Plasma Extravasation in Mice." Br. J. Pharmacol. 153 (2008): 1296-1302. PubMed: 18264118.
4. Sakurai, J. and M. Nagahama. "*Clostridium perfringens* Beta-Toxin: Characterization and Action." Toxin Reviews 25 (2006): 89-108.

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