Coli Surface Protein 6 (CS6) from Enterotoxigenic Escherichia coli

Catalog No. NR-49115
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Contributor:
National Institutes of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH)

Manufacturer:
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Product Description:
NR-49115 is a preparation of coli surface protein 6 (CS6) purified from enterotoxigenic Escherichia coli (E. coli) (ETEC). CS6 is a virulence factor responsible for adhesion of bacterial cells to intestinal epithelial cells.

NR-49115 was obtained from E. coli strain M346, grown in yeast extract broth in a fermenter under cGMP conditions. The protein was purified from the culture supernatant by tangential flow filtration. NR-49115 has an approximate molecular weight of 15 kilodaltons.

The ETEC infectious process is initiated by the organism adhering to the host intestinal epithelial cells via interactions between bacterial adhesions, colonization factors [including colonization factor antigens (CFAs), coli surface (CS), and putative colonization factors (PCFs)] and host receptors. ETEC then causes secretory diarrhea by expressing heat-labile enterotoxin and heat-stable enterotoxin.

Material Provided:
Each vial of NR-49115 contains approximately 2 mg of CS6 in PBS, pH 7.4. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:
NR-49115 was packaged aseptically in cryovials. The product is provided frozen on dry ice and should be stored at -80°C ± 10°C immediately upon arrival. Freeze-thaw cycles should be avoided.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Coli Surface Protein 6 (CS6) from Enterotoxigenic Escherichia coli, NR-49115.”

Biosafety Level: 1

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References:
3. Yamamoto, T. and T. Yokota. “Plasmids of

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