

Streptococcus pneumoniae* Family 2, Clade 3 Pneumococcal Surface Protein A (PspA UAB099) with C-Terminal Histidine Tag, Recombinant from *Escherichia coli

Catalog No. NR-33179

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Contributor:

BEI Resources

Manufacturer:

Center for AIDS Research Virology Core at the University of Alabama at Birmingham

Product Description:

NR-33179 is a recombinant form of the pneumococcal surface protein A¹⁻⁴ (PspA UAB099) from *Streptococcus pneumoniae* (*S. pneumoniae*) Family 2, Clade 3. PspA UAB0599 contains an N-terminal pelB leader peptide and a C-terminal histidine tag and was expressed in *Escherichia coli* using a T7 expression system and purified by nickel affinity chromatography.

Material Provided:

Each vial contains approximately 1 mg of NR-33179 in 50 mM Tris-HCl (pH 7.0) containing 20 mM NaCl and 0.1% glycine. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-33179 was packaged aseptically in cryovials. The product is provided frozen on dry ice and should be stored at -80°C or colder immediately upon arrival.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Streptococcus pneumoniae* Family 2, Clade 3 Pneumococcal Surface Protein A (PspA UAB099) with C-Terminal Histidine Tag, Recombinant from *Escherichia coli*, NR-33179."

Biosafety Level: 1

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, 2009; see www.cdc.gov/biosafety/publications/bmbl5/BMBl.

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References:

1. Yother, J., and D. E. Briles. "Structural Properties and Evolutionary Relationships of PspA, a Surface Protein of *Streptococcus pneumoniae*, as Revealed by Sequence Analysis." *J. Bacteriol.* 174 (1992): 601-609. PubMed: 1729249.
2. Hollingshead, S. K., R. Becker, and D. E. Briles. "Diversity of PspA: Mosaic Genes and Evidence for Past Recombination in *Streptococcus pneumoniae*." *Infect. Immun.* 68 (2000): 5889-5900. PubMed: 10992499.
3. Briles, D. E., et al. "Immunization of Humans with Recombinant Pneumococcal Surface Protein A (rPspA) Elicits Antibodies that Passively Protect Mice from Fatal Infection with *Streptococcus pneumoniae* Bearing Heterologous PspA." *J. Infect. Dis.* 182 (2000): 1694-1701. PubMed: 11069242.
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