

***Streptococcus pneumoniae* Family 1, Clade 2 Pneumococcal Surface Protein A (PspA UAB055) with C-Terminal Histidine Tag, Recombinant from *Escherichia coli***

**Catalog No. NR-33178**

This reagent is the property of the U. S. Government.

**For research use only. Not for human use.**

**Contributor:**

BEI Resources

**Manufacturer:**

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

**Product Description:**

NR-33178 is a recombinant form of the pneumococcal surface protein A<sup>1-4</sup> (PspA UAB055) from *Streptococcus pneumoniae* (*S. pneumoniae*) Family 1, Clade 2, strain Rx1. PspA UAB055 contains a C-terminal histidine tag and was expressed in *Escherichia coli* using a T7 expression system and purified by nickel affinity chromatography. It was further purified using a Detoxi-Gel™ Endotoxin Removing Gel column.

**Material Provided:**

Each vial contains approximately 1 mg of NR-33178 in PBS (pH 7.4). The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

**Packaging/Storage:**

NR-33178 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 1, Clade 2 Pneumococcal Surface Protein A (PspA UAB055) with C-Terminal Histidine Tag, Recombinant from *Escherichia coli*, NR-33178."

**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/bmb15/BMBL](http://www.cdc.gov/biosafety/publications/bmb15/BMBL).

**Disclaimers:**

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at [www.beiresources.org](http://www.beiresources.org).

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

**Use Restrictions:**

**This material is distributed for internal research, non-commercial purposes only.** This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

**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.
4. Briles, D. E., et al. "The Potential to Use PspA and Other

Pneumococcal Proteins to Elicit Protection Against Pneumococcal Infection." Vaccine 18 (2000): 1707-1711. PubMed: 10689153.

ATCC® is a trademark of the American Type Culture Collection.

