

Datasheet for PA00-00**Protein A****Overview**

Description:	Protein A - PA00-00
Item No.:	PA00-00
Size:	5 mg
Applications:	ELISA
Origin:	Staphylococcus aureus

Product Details

Background:	Protein A is a cell wall protein originating from the bacterium <i>Staphylococcus aureus</i> . Protein A binds to immunoglobulins through interaction with the IgG heavy chain within the Fc region. Affinity to Fc may vary depending on IgG species origins or subclasses. Protein A is predicted 42kDa based on sedimentation data and observed to run ~55-56kDa on SDS-Page.
Synonyms:	ProA, <i>Staphylococcus A</i> protein
Species of Origin:	<i>Staphylococcus aureus</i>

Target Details

Purity/Specificity:	Protein A is chromatographically pure and shows predominantly a single band by SDS-PAGE. Greater than 95% of the A280 material binds to Human IgG.
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Application Details

Suggested Applications:	ELISA (Based on references)
Application Note:	Protein A is suitable for use as an antigen, as a control or standard in assays, for conjugation and for most other immunological methods. Protein A contains only IgG binding domains, ensuring maximum specific IgG binding.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized

WB: User Optimized

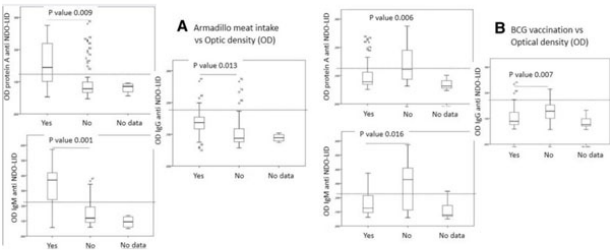
Formulation

Physical State:	Lyophilized
Reconstitution Volume:	5.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Protein A is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



ELISA

Impact of behavioral variables on *M. leprae* infection levels. Anti-natural octyl disaccharide-leprosy IDRI diagnostic (NDO-LID) antibody levels in children and adolescents were measured by ELISA, using either protein A, anti-IgM or anti-IgG to detect responses. In a, samples were stratified by recorded knowledge of eating armadillo meat as either yes (n = 14) or no (n = 64). In b, samples were stratified by recorded knowledge of BCG re-vaccination following identification of the index leprosy case as either yes (n = 54) or no (n = 16). Data are displayed as box and whisker plots, with the box representing the Q1 to Q3 interquartile range and the horizontal bar representing the median of the optical density of the samples. Individual dots indicate outliers, and p-values are indicated by the lines above each indicated group. Fig 2. PMID: 31196008.

References

- Serrano-Coll, H et al. Social and environmental conditions related to *Mycobacterium leprae* infection in children and adolescents from three leprosy endemic regions of Colombia. *Bmc Infectious Diseases* (2019)

Disclaimer

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