

## Staphylococcus aureus Alpha Hemolysin ( $\alpha$ -toxin)

Catalog #: 1401-002

### Description:

*Staphylococcus aureus* alpha hemolysin (Hla), also known as alpha toxin ( $\alpha$ -toxin), is expressed in *E. coli* as a recombinant protein without TAG.  $\alpha$ -toxin is purified by column chromatography. The theoretical molecular weight of the protein is approximately 33 kDa.

**Formulation & Storage:** Supplied in phosphate buffered saline and 20% glycerol. **Store at -80°C.**

### Notes & Usage Guidelines:

**ELISA:** Assay-dependent dilution

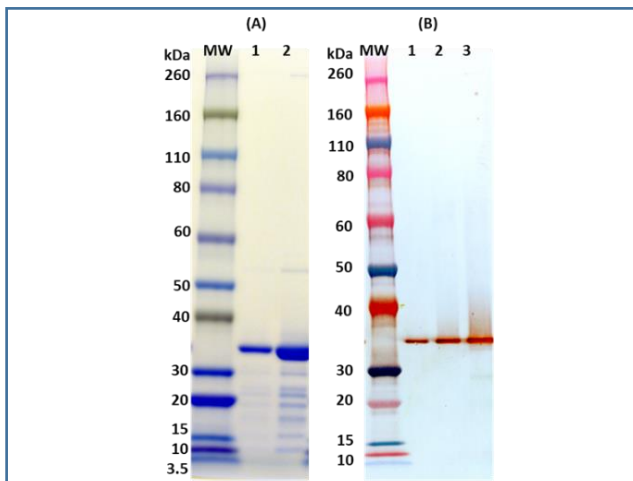
**WB:** Assay-dependent dilution

## Applications

### SDS-PAGE and Western Blot Data:

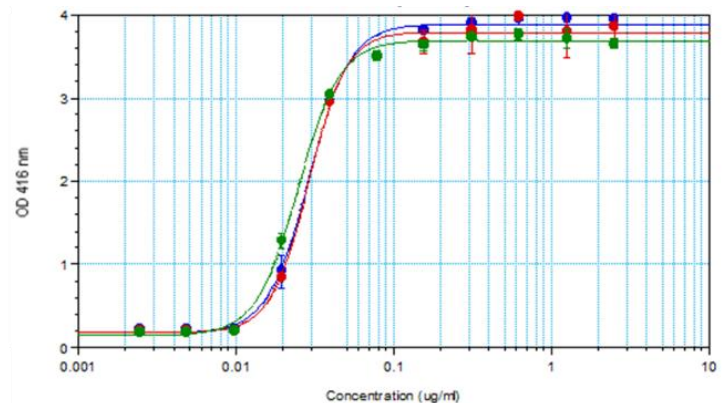
(A) SDS-PAGE of Hla: 1  $\mu$ g (Lane 1) and 5  $\mu$ g (Lane 2).

(B) Western blot detection of Hla at 5 ng (Lane 1), 10 ng (Lane 2), and 50 ng (Lane 3), using IBT's mouse anti-Alpha Toxin (6C12) monoclonal antibody (Catalog # 0210-005) at 1.0  $\mu$ g/mL and an anti-mouse IgG-HRP conjugate followed by TMB membrane substrate.



### Hemolytic Activity Data:

Lysis of rabbit red blood cells by *S. aureus* Hla. Red blood cell lysis was determined by absorbance at OD 416 nm after 30 min incubation at 37°C with Hla. EC<sub>50</sub> values were found to be 0.0248  $\mu$ g/mL for lot 1910004 (green circles) and 0.029  $\mu$ g/mL for previous lots 1805010 (blue circles) and 0.0289  $\mu$ g/mL for 1810002 (red circles).



### Certificate of analysis:

A hardcopy of datasheet is sent along with the products. Please refer to it for detailed information. For older lots, refer to the applicable certificate of analysis that may be requested at [services@ibtbioservices.com](mailto:services@ibtbioservices.com)

### Related Products:

IBT provides a wide array of anti-filovirus specific antibodies, recombinant proteins, and other infectious disease reagents. Please see our website, [www.ibtbioservices.com](http://www.ibtbioservices.com) for more details.

**Intended for research use only, not for human, therapeutic, or diagnostic applications.**

The buyer cannot sell or otherwise transfer this product for Commercial Purposes without written approval of Integrated BioTherapeutics, LLC.

Copyright 2023. Integrated BioTherapeutics, LLC. All rights reserved.