

Streptolysin O Active Protein

Streptolysin O protein

CATALOG # AAA18828	HOST Recombination	APPLICATIONS LETIA (Latex Enhanced Turbidimetric Immunoassay)
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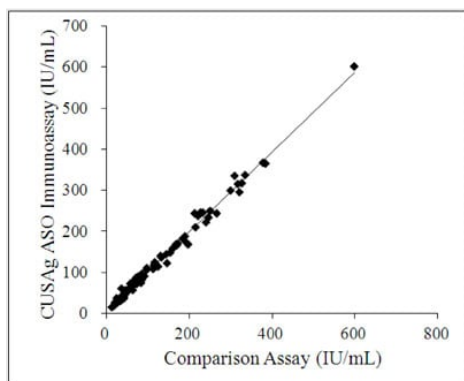
PRODUCT SYNONYMS

Streptolysin O; Streptolysin O protein; Recombinant Streptolysin O protein; Thiol-activated cytolysin; slo; Streptolysin O active protein

PRODUCT SPECIFICATIONS

Host	Recombination
Purity/Purification	90% $\pm$ 5% by SDS-PAGE
Form/Format	Liquid,dissolved in 20 mM Tris-HCl, 500 mM NaCl, pH 8.0, 10% glycerol
Applicable Applications for Streptolysin O active protein	LETIA (Latex Enhanced Turbidimetric Immunoassay)
Preparation and Storage	Aliquot and store at $\leq -20^{\circ}\text{C}$. Avoid repeated freeze / thaw cycles

IMAGES



Panel Member	n	Mean Conc. (ng/mL)	SD	%CV
1	20	45.6	0.5	1.2
2	20	102.0	0.8	0.8

Precision

A two-member buffered protein-based panel was assayed, using a single lot of reagents, in replicates of twenty at two separate times on the LETIA platform. As shown in the Table, the system showed excellent precision with CV

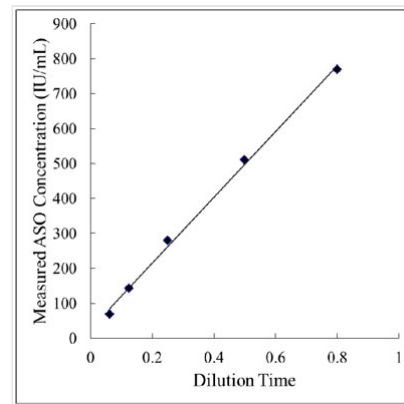
Comparison

SLO protein was also with random blood samples from donor (n=100). Fig.3 showed that the correlation coefficient(r) is as high as 0.99 between latex reagents and another commercial ASO immunoassay. These results show good agreement between the two systems.Fig.3 Comparison of ASO immunoassay and another commercial assays

ASO Control	Determined Con. (IU/mL)			Mean Con. (IU/mL)	Bias (%)
Control 1 (142 IU/mL)	142	143	146	144	1.4
Control 2 (194 IU/mL)	196	194	195	195	0.5

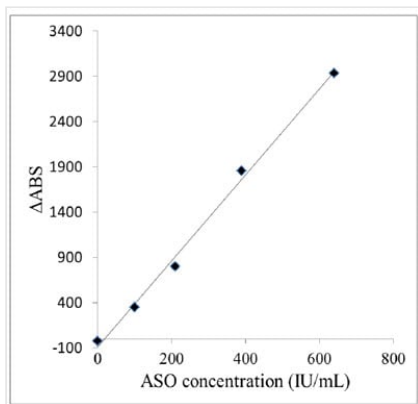
Accuracy

Two levels of ASO controls were analyzed in replicates of three using AAA18828 SLO protein on the LETIA platform. Data from this study are summarized in the following table, the relative bias was



Linearity

The high-value ASO serum was 2-fold serially diluted with physiological saline, and measured on the LETIA platform. Fig.2 showed that the measured ASO concentrations were gradual declined along with the serial dilution of blood samples. Fig.2 Determination of the ASO concentration by serial dilution of donor serum.



Calibration Curve

Anti-SLO antibodies specifically react with SLO antigens precoated on latex beads to form insoluble complexes, resulting in turbidity increasing, and then the increasing of absorbance is detected by automatic biochemical analyzer. The calibration curve was fitted according to the relationship between absorbance values and ASO (Anti-SLO Antibodies) concentrations (Fig.1). Fig.1 Calibration curve for ASO in latex-enhanced immunoturbidimetric assay (LETIA)

ADDITIONAL INFORMATION

Related Product Information for Streptolysin O active protein

Streptolysin O (SLO) is an immunogenic protein secreted by most *Streptococcus pyogenes* group A strains. MBS1491645 was originally manufactured as a native protein and is now manufactured as a recombinant protein.

Product Categories/Family for Streptolysin O active protein

[Raw Materials Assay Development](#)

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/recombination-active-protein/streptolysin-o/18828>