



# **SOLANUM TUBEROSUM (POTATO) LECTIN (STL, PL), BIOTINYLATED**

**SKU:** B-1165-2



## **DESCRIPTION**

This lectin binds oligomers of *N*-acetylglucosamine and some bacterial cell wall oligosaccharides containing *N*-acetylglucosamine and *N*-acetylmuramic acid. Although the carbohydrate binding specificity is similar to wheat germ agglutinin and *Datura stramonium* lectin, several differences have been reported for potato lectin.

Biotinylated *Solanum tuberosum* lectin has an appropriate number of biotins bound to provide the optimum staining characteristics for this lectin. This conjugate is supplied essentially free of unconjugated biotins and is preserved with sodium azide.

## **SPECIFICATIONS**

|                         |     |
|-------------------------|-----|
| <b>Molecular Weight</b> | 100 |
|-------------------------|-----|

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|                                    |                                                                                                                      |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Extinction Coefficient</b>      | 0.8                                                                                                                  |
| <b>Formulation</b>                 | 10 mM HEPES, pH 7.5, 0.15 M NaCl, 0.08% sodium azide, 0.1 mM CaCl <sub>2</sub> , 20 mM N-acetylglucosamine.          |
| <b>Inhibiting or Eluting Sugar</b> | Chitin Hydrolysate                                                                                                   |
| <b>Unit Size</b>                   | 2 mg                                                                                                                 |
| <b>Storage Instructions</b>        | 2-8 °C; Store frozen for long term storage                                                                           |
| <b>Sugar Specificity</b>           | Internal linear type 2 LacNAc, Chitin oligomers and type 2 LacdiNAc                                                  |
| <b>Usage Summary</b>               | For most applications we recommend a freshly prepared working solution of 5-20 µg/ml in the below buffer.            |
| <b>Applications</b>                | Immunohistochemistry / Immunocytochemistry, Immunofluorescence, Blotting Applications, Elispot, ELISAs, Glycobiology |
| <b>Concentration</b>               | 2 mg active conjugate/ml                                                                                             |
| <b>Conjugate</b>                   | Biotinylated                                                                                                         |

## TECHNICAL INFORMATION

*Solanum tuberosum* lectin consists of two identical 50 kDa subunits. The subunits can dissociate in solution to produce a monomeric form of the lectin which does not agglutinate cells.

This biotinylated lectin is an ideal intermediate for examining glycoconjugates using the Biotin-Avidin/Streptavidin System. First the biotinylated lectin is added, followed by the VECTASTAIN ABC Reagent, Avidin D conjugate, or streptavidin derivative.

Inhibiting/Eluting Sugar: Chitin Hydrolysate

## CITATIONS



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## DOCUMENTS

- [Safety Data Sheet](#)
- [Lectins in Histochemistry, ELISA, and Western Blot Applications](#)
- [Download CoA](#)
- [Datasheet](#)

## GALLERY IMAGES



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