



# LYCOPERSICON ESCULENTUM (TOMATO) LECTIN (LEL, TL), DYLIGHT 649

**SKU:** DL-1178-1



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## DESCRIPTION

Tomato lectin (from *Lycopersicon esculentum*) is an effective marker of blood vessels and microglial cells in rodents. Conjugation of the lectin with a fluorophore facilitates fast, one-step detection and visualization using intravascular perfusion methods or direct application to tissue sections.

DyLight™ 649 labeled tomato lectin has an appropriate number of fluorochromes bound to provide the optimum staining characteristics for this lectin. This conjugate is supplied essentially free of unconjugated fluorochromes.

- Excitation maximum: 655 nm
- Emission maximum: 670 nm
- Color: Far red

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## SPECIFICATIONS

|                                    |                                                                                                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Weight</b>            | 71                                                                                                                                                                                   |
| <b>Color of Fluorescence</b>       | Far Red                                                                                                                                                                              |
| <b>Extinction Coefficient</b>      | 0.76                                                                                                                                                                                 |
| <b>Formulation</b>                 | 10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide, 0.1 mM CaCl <sub>2</sub> .                                                                                                     |
| <b>Inhibiting or Eluting Sugar</b> | Chitin Hydrolysate                                                                                                                                                                   |
| <b>Maximum Emission</b>            | 670 nm                                                                                                                                                                               |
| <b>Maximum Excitation</b>          | 655 nm                                                                                                                                                                               |
| <b>Unit Size</b>                   | 1 mg                                                                                                                                                                                 |
| <b>Storage Instructions</b>        | 2-8 °C                                                                                                                                                                               |
| <b>Sugar Specificity</b>           | Chitin oligomers, type 2 polyLacNAc, and Type 2 LacdiNAc<br>The recommended concentration range for use is 5-20 µg/ml. If a precipitate forms upon long-term storage, warm to 37 °C. |
| <b>Usage Summary</b>               |                                                                                                                                                                                      |
| <b>Applications</b>                | Immunofluorescence, Glycobiology                                                                                                                                                     |
| <b>Concentration</b>               | 1 mg active conjugate/ml                                                                                                                                                             |
| <b>Conjugate</b>                   | DyLight 649                                                                                                                                                                          |

## TECHNICAL INFORMATION

Tomato lectin is a very stable single subunit glycoprotein containing about 50 percent arabinose and galactose and may form multimeric aggregates in solution. Tomato lectin, although sharing some specificities with potato lectin, Datura lectin, and wheat germ agglutinin, has been reported to be dissimilar in many respects. LEL binds well to glycophorin and Tamm-Horsfall glycoprotein.

DyLight™ 649 conjugated tomato lectin emits in the far red and is an excellent second label in systems with green/yellow fluorescence such as GFP expressed in transgenic animals, or with fluorescein conjugates in standard double label studies. The tomato lectin complements our existing range of lectin reagents and should be a valuable tool in examining rodent tumor angiogenesis, tracing neovascular development in xenograft models and brain research.

Accompanying each fluorescent lectin is an analysis data sheet summarizing the results of our

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quality control tests and providing pertinent information on the product. All of these reagents are supplied as solutions preserved with sodium azide.

Inhibiting/Eluting Sugar: Chitin Hydrolysate

## CITATIONS



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## DOCUMENTS

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

## GALLERY IMAGES



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