# Native Jimson weed Datura stramonium Lectin (DSA/DSL), TRITC-Conjugated

**Cat. No.** DSA/DSL-487J **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Native Jimson weed Datura stramonium Lectin (DSA/DSL) - TRITC (Rhodamine)<br>Blood Group Specificity: Non-specific<br>Preferred Sugar Specificity: (N-Acetylglucosamine)2-4<br>Inhibiting or Eluting Sugar: Chitin Hydrolysate<br>Divalent Ions: None Required<br>Excitation: 545-555 nm<br>Emission: 570-580 nm<br>Mitogenic Activity: Yes<br>Hazardous Shipping: Non-hazardous<br>Fluorescence: Orange |
| **Species** | Jimson weed |
| **Source** | Jimson weed |
| **Description** | Datura stramonium agglutinin or lectin (DSA/DSL) is purified by affinity chromatography. Seeds of Datura stramonium contain at least three different carbohydrate-binding proteins, and the most prominent lectin is a dimeric glycoprotein composed of two nonidentical subunits that contains 40% carbohydrate. DSL prefers binding to (GlcNAc)2-4 and elutes with the sugar chitin hydrolysate. DSL binds well in the acidic pH range and its affinity decreases above pH 8.0. This agglutinin has blood group A, B, and O specificity. Studies have shown that DSA can act as a biomarker for neoplastic urotherial cells. Datura stramonium Lectin (DSA/DSL) is labeled with |

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| | tetramethylrhodamine isothiocyanate (TRITC) and has an appropriate number of fluorochromes bound to provide the optimum staining characteristics for this lectin. TRITC is a bright orange or red-fluorescent dye with excitation ideally suited to the 532-nm laser line. TRITC labeled DSA/DSL can be used for cellular imaging applications. |
| **Form** | Liquid |
| **Purity** | High Purity Grade |
| **Stability** | Shelf Life: 1 year |
| **Storage** | At 2-8 centigrade. |
| **Concentration** | 5 mg/mL |

## GENE INFORMATION

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| **Official Symbol** | DSA/DSL |
| **Synonyms** | Datura stramonium Lectin; DSA/DSL |

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