Native Camel's foot tree Bauhinia purpurea Lectin (BPL/BPA), Biotinylated-Conjugated

Cat. No. BPL/BPA-054C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Camel's foot tree Bauhinia purpurea Lectin (BPL/BPA) - Biotinylated Blood Group Specificity: Non-specific Preferred Sugar Specificity: Galβ3GalNAc Inhibiting or Eluting Sugar: Lactose Divalent Ions: None Required Mitogenic Activity: Yes Hazardous Shipping: Non-hazardous
Species	Camel's foot tree
Source	Camel's foot tree
Description	Bauhinia purpurea agglutinin or lectin (BPA/BPL) is a tetrameric lectin with a molecular weight of 195,000. BPA is lactose-specific and elutes with the sugar lactose. It has specificity for blood groups A, B, O (-SA). Treatment of erythrocytes with neuraminidase or trypsin will increase the agglutination reaction, indicating that the receptor is masked by terminal carbohydrates. Although binding specificity is similar to that of peanut agglutinin, tissue staining patterns of these two lectins are distinct. Makela's group 2 sugars, particularly N-acetyl-D-galactosamine, are potent inhibitors. The native protein appears to be stable in detergent solution. Biotin is a small molecule involved in a wide range of metabolic processes. This ligand forms a complex with Avidin and Streptavidin, resulting in the strongest non-covalent protein-ligand interaction known. Biotinylated Bauhinia purpurea Lectin (BPL/BPA) has an

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	appropriate amount of biotin bound to provide optimum detection characteristics when using an Avidin-HRP or Streptavidin-HRP conjugate. Biotinylated lectins allow for more sensitive detection in ELISA and Western-blotting applications.
Form	Liquid
Purity	High Purity Grade
Stability	Shelf Life: 1 year
Storage	At 2-8 centigrade.
Concentration	2 mg/mL

GENE INFORMATION

Official Symbol	BPL/BPA
Synonyms	Bauhinia purpurea Lectin; BPL/BPA

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