

# Native Garlic *Allium sativum* Lectin (ASA), HRP-Conjugated

**Cat. No.** ASA-346G    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | <p>Native Garlic <i>Allium sativum</i> Lectin (ASA) - HRP (Horseradish Peroxidase)</p> <p>Blood Group Specificity: Non-specific</p> <p>Preferred Sugar Specificity: Mannose</p> <p>Inhibiting or Eluting Sugar: <math>\alpha(1,3)</math>-Linked Mannosyl Units</p> <p>Divalent Ions: None Required</p> <p>Hazardous Shipping: Non-hazardous</p>                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Garlic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | Garlic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | <p><i>Allium sativum</i> lectin (ASA) is purified first with affinity chromatography and then with gel filtration. It is a dimer of two subunits. The lectin recognizes internal mannose and binds to the core pentasaccharide of N-linked glycans. In addition, the removal of sialic acids enhances binding activity. Horseradish peroxidase (HRP) is a 40 kDa protein that catalyzes the oxidation of substrates by hydrogen peroxide, resulting in a colored or fluorescent product or release of light as a byproduct of the reaction. It is most commonly used for blotting, immunoassays and immunohistochemistry methods. <i>Allium sativum</i> Lectin (ASA) is conjugated to HRP at an appropriate ratio to provide optimal staining characteristics.</p> |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | High Purity Grade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|------------------|--------------------|
| <b>Stability</b> | Shelf Life: 1 year |
|------------------|--------------------|

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| <b>Storage</b> | At 2-8 centigrade. |
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|                      |         |
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| <b>Concentration</b> | 2 mg/mL |
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## GENE INFORMATION

|                        |     |
|------------------------|-----|
| <b>Official Symbol</b> | ASA |
|------------------------|-----|

|                 |                            |
|-----------------|----------------------------|
| <b>Synonyms</b> | Allium sativum Lectin; ASA |
|-----------------|----------------------------|

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