

# Native Banana *Musa paradisiaca* Lectin (BanLec), Colloidal Gold-Conjugated

**Cat. No.** BanLec-124B    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | <p>Native Banana <i>Musa paradisiaca</i> Lectin (BanLec) - Colloidal Gold</p> <p>Blood Group Specificity: Non-specific</p> <p>Preferred Sugar Specificity: <math>\alpha</math>-Mannose, <math>\alpha</math>-Glucose</p> <p>Inhibiting or Eluting Sugar: <math>\alpha</math>-Methylmannoside</p> <p>Divalent Ions: Zn<sup>++</sup></p> <p>Excitation: 550 nm</p> <p>Emission: 570 nm</p> <p>Mitogenic Activity: Yes</p> <p>Hazardous Shipping: Non-hazardous</p>                                                                                                                                                              |
| <b>Species</b>          | Banana                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | Banana                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | <p>Purified BanLec is conjugated to colloidal gold. The surface of the colloidal gold particle displays both electrostatic and hydrophobic properties. For conjugation to gold sol, the electrostatic interactions must be reduced so that the hydrophobic interactions can succeed. The pH of the gold sol is adjusted to give the net charge of the protein zero, or slightly negative. This prevents the aggregation of the protein due to electrostatic attraction while maintaining the hydrophobic interactions. This product comes in a stabilized liquid form and is suitable for light and electron microscopy.</p> |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

|                      |                    |
|----------------------|--------------------|
| <b>Purity</b>        | High Purity Grade  |
| <b>Stability</b>     | Shelf Life: 1 year |
| <b>Storage</b>       | At 2-8 centigrade. |
| <b>Concentration</b> | 1 mg/mL            |

## GENE INFORMATION

|                        |                                 |
|------------------------|---------------------------------|
| <b>Official Symbol</b> | BanLec                          |
| <b>Synonyms</b>        | Musa paradisiaca Lectin; BanLec |

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