



# GLUCAN DETECTION



Our Test, Your Cure...  
Ensuring A Healthy World

## **Your Endotoxin Experts!**

*Experts in Endotoxin and Glucan Detection for nearly 50 Years.*



## GlucateLL® Kit – (1→3)-β-D-Glucan Detection

The GlucateLL® kit is specific for detection of (1→3)-β-D-Glucan (BG). BG is considered a contaminant in parenteral drugs, solutions, and medical devices due to BG's bioactivity as an activator of innate immunity and its capacity to enhance bacterial endotoxin tests (literature references to the bioactivity of BG may be found at [www.acciusa.com/pdfs/BG\\_Biol\\_Activity\\_Ref\\_List\\_PR16023.pdf](http://www.acciusa.com/pdfs/BG_Biol_Activity_Ref_List_PR16023.pdf)). The GlucateLL assay is based upon a modification of the *Limulus* Amebocyte Lysate (LAL) pathway. GlucateLL® reagent is processed to eliminate Factor C, and is therefore specific for (1→3)-β-D-Glucan. The reagent does not react with other polysaccharides, including beta-glucans with different glycosidic linkages. GlucateLL® is a chromogenic reagent that may be used to perform either kinetic or endpoint assays in microplate readers.

### Sensitivity

The sensitivity for GlucateLL® assay is determined by the lowest standard concentration on the standard curve used for the assay. The maximum sensitivity for GlucateLL® is 3.125 pg/mL when used with a microplate reader.

### Sample to GlucateLL® Ratio

**Kinetic Assay:** Reconstituted GlucateLL® reagent is used at a ratio of 1:4 and a volume of 100 µL/well (55 tests/vial).

**Endpoint Assay:** Reconstituted GlucateLL® reagent is used at a ratio of 1:1 and a volume of 50 µL/well (55 tests/vial).

### Performing the Test

**Kinetic Assay:** The GlucateLL®/sample mixture is incubated at 37±1°C in a microplate reader. Software is used to construct the standard curve and calculate glucan concentrations.

**Endpoint Diazo Assay:** The GlucateLL®/sample mixture is incubated at 37±1°C in a microplate heating block for the recommended time period. 50 µL each of the three diazo reagents are then added to the mixture. Software is used to construct the standard curve and calculate glucan concentrations.

### Reconstitution

GlucateLL® reagent can be reconstituted differently depending on the assay you use. For endpoint assays, use 2.8 mL of only Pyrosol® reconstitution buffer. For kinetic assays, combine 2.8 mL each of Pyrosol® and Reagent Grade Water.

### Stability

Store all reagents at 2–8°C in the dark. Once reconstituted, GlucateLL® reagent should be stored at 2–8°C and used within 2 hours. Alternatively, reconstituted GlucateLL® reagent can be frozen at -20°C for 20 days, thawed once and used. The diazo reagents should be used the day they are prepared.

### Product Applications

- Analyzing final products for (1→3)-β-D-Glucan
- Investigating BET Out of Specification results
- Qualifying raw materials
- Monitoring cellulosic filter extractables
- Monitoring fungal fermentation processes
- Analyzing fermentation and cell culture media
- Monitoring airborne glucan burden

## Packaging

The Glucate<sup>®</sup> kit is available as either an endpoint or kinetic chromogenic assay for use in microplates. The kit contains the Glucate<sup>®</sup> reagent, a (1→3)-β-D-Glucan standard, buffer, glucan-free water, glucan-free microplates and diazo reagents (endpoint kit only).

## Glucate<sup>®</sup> Kit

- #GT002 Kinetic assays; 110 tests
- #GT003 With diazo reagents for endpoint assays; 55 tests
- #GT004 Kinetic assays; 55 tests

## Accessory Products

### Pipette tips

- #PPT25 250 μL tips, 96 tips/box, 10 boxes/pack
- #PPT10 1000 μL tips, 96 tips/box, 8 boxes/pack

### Pyrotubes<sup>®</sup>

- #TB013-5 13 x 100 mm borosilicate glass (for dilutions only) 18 tubes/pack, 5 packs/carton





## Ordering Information

Customer service representatives are available to assist you with orders, pricing requests and Certificates of Analysis.

## Method of Payment For United States

- Check (in US dollars) made payable to Associates of Cape Cod, Inc.
- Wire Transfer (contact Accounts Receivable for routing information)
- Credit Card (AMEX®, VISA®, MasterCard®)  
If payment is to be made by credit card, the following information is required: Type of Credit Card, Card Number, Credit Card Security Code, Expiration Date of Card, and Name (as it appears on the card).

## Additional Information

ACC reserves the right to institute, modify or discontinue credit limits provided to customers at any time for any or no reason.

The use of credit cards for payment may incur a fee, please see our website for ACC's policy on credit card usage at [www.acciusa.com/pdfs/acctc.pdf](http://www.acciusa.com/pdfs/acctc.pdf)

## Outside the U.S.

Please contact your local office for information regarding method of payment. For a list of your country specific distributors please visit [www.acciusa.com](http://www.acciusa.com).

Product listings, information and fill sizes are subject to change at any time without prior notice.

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