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Research Products

3.1

Glucate[®] Kit

Pyrosate[®] Kit



GlucateLL® Kit

(1→3)-β-D-glucan Detection

General Product Description

The GlucateLL® assay kit is specific for (1→3)-β-D-glucan. The assay is based upon a modification of the *Limulus* Amebocyte Lysate (LAL) pathway. The GlucateLL reagent is processed to eliminate Factor C, and is therefore specific for (1→3)-β-D-glucan. The reagent does not react to other polysaccharides, including beta-glucans with different glycosidic linkages.

Sample to Lysate Ratio

Kinetic Assay: 25 μL of sample or standard is mixed with 100 μL of reagent in a microplate.

End-point Assay: 50 μL of sample is mixed with 50 μL of reagent in a microplate.

Performing the Test

Kinetic Assay: The GlucateLL/sample mixture is incubated at 37°C ± 1°C in a microplate reader equipped with a 405 nm filter and analyzed over time by a suitable software program.

End-point Assay: The GlucateLL/sample mixture is placed in a microplate heating block at 37°C ± 1°C for the recommended time period. 50 μL each of the three diazo reagents are added to the mixture to stop the reaction, which is then read at 540–550 nm. Concentration of the samples is analyzed by a suitable software program.

Stability

Store all reagents at 2–8°C in the dark. 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.

Packaging

The GlucateLL kit is available as either an end-point or kinetic chromogenic assay for use in microplates. The kit contains the GlucateLL reagent, a (1→3)-β-D-glucan standard, buffer, diazo reagents (end-point kit only), glucan-free water, and glucan-free microplates.

Product Applications

- Analyzing final products for (1→3)-β-D-glucan
- Investigating LAL 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

Accessory Products

1. Pyroplate® (CA961), 96 well microplate,
2. 250 μL Pipette tips (PPT25)
3. 1000 μL Pipette tips (PPT10)
4. Pyrotubes® (TB013), 13 x 100 mm borosilicate glass dilution tubes
5. Incubating microplate reader, see pages 5.4 and 5.6

For more information please visit our website at www.acciusa.com or contact Technical Services at (800) 848–3248.

GlucateLL Kit

- #GT001 ----- With diazo-reagents for end-point assays; 110 tests
- #GT002 ----- Kinetic assays; 110 tests
- #GT003 ----- With diazo-reagents for end-point assays; 55 tests
- #GT004 ----- Kinetic assays; 55 tests



Pyrosate® Kit

Rapid Endotoxin Detection*

General Product Description

The Pyrosate kit is a major advance in LAL gel-clot testing. The assay does not require special training or laboratory supplies. The step-by-step illustrated instructions allow the user to perform assays within minutes. The Pyrosate kit provides rapid results and is especially convenient for testing water and dialysate as no dilutions are required.

Sensitivity

The Pyrosate kit is available in two sensitivities: 0.25 EU/mL and 1.0 EU/mL. These sensitivities can be achieved in less than 30 minutes, much less time than required for other gel-clot assays.

Performing the Test

The Pyrosate kit is the only rapid gel-clot test that contains a $2\lambda^{**}$ endotoxin tube (PPC) matched to the sample (SPL) tube for each sensitivity. This feature is unique to the Pyrosate assay and ensures the validity of the test. The endotoxin tube (PPC) assures that the sample does not interfere with the test, ruling out false negatives. Pyrosate is formulated to eliminate false positives due to (1 \rightarrow 3)- β -D-glucans. This endotoxin specific reagent does not require additional blocking buffers.

Reconstitution

Pyrosate lysate is reconstituted directly with the sample by adding 0.5 mL to the sample (SPL) tube. After approximately 60 seconds of gentle mixing, 0.25 mL is transferred to the endotoxin (PPC) tube. The incubation time at 37°C is specified in the Certificate of Compliance.



*May be used for all endotoxin testing applications not requiring FDA-licensed LAL.

** λ (lambda) is the least concentration of endotoxin to cause a positive test result under standard conditions.

Stability

Testing has demonstrated that the Pyrosate LAL reagent is stable at room temperature. This is an LAL product that does not require refrigeration for shipping or storage.

Packaging

The Pyrosate kit is available in a 10 test kit and a 25 test bulk package for each sensitivity. Each kit contains sample test tubes (SPL) and endotoxin test tubes (Positive Product Control-PPC).

Product Applications

- Hemodialysis
- Water and Water Systems
- Filter Industry
- Research
- Final Product*

Product Benefits

- Shorter Assay Time
- Endotoxin Specific
- No Dilutions Required
- No Refrigeration Required
- Matched Positive Product Control

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- #PSD10 ----- Pyrosate 0.25 EU/mL 10-Test Kit includes sample test tubes, positive product control test tubes, and disposable pipettes
- #PSD101 ----- Pyrosate 1.0 EU/mL 10-Test Kit includes sample test tubes, positive product control test tubes, and disposable pipettes
- #PSD25 ----- Pyrosate 0.25 EU/mL 25-Test Bulk Package includes sample test tubes and positive product control test tubes only
- #PSD251 ----- Pyrosate 1.0 EU/mL 25-Test Bulk Package includes sample test tubes and positive product control test tubes only
- #PPT50 ----- Disposable 50/pack transfer pipettes for Pyrosate kits



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