

Pyrotell®-T Turbidimetric Endotoxin Testing



General Product Description

Pyrotell-T is used to quantify endotoxin in kinetic turbidimetric tests. Pyrotell-T can be used with the Pyros Kinetix® Flex tube reader and incubating microplate readers. When used with the Pyros Kinetix Flex tube reader, Pyrotell-T gives a highly economic, flexible and sensitive LAL assay.

It can be used for a wide variety of endotoxin tests, ranging from standard water testing to samples requiring high sensitivity, such as intrathecal products and those requiring high dilutions to overcome interference.

Sensitivity

When used in a Pyros Kinetix Flex tube reader, the maximum sensitivity is 0.001 EU/mL. The unique formulation of Pyrotell-T allows a wide selection of standard curves to be used, giving the user flexibility, speed, and ease in performing assays.

Sample to LAL Ratio

The ratio of sample to LAL is determined by personal preference and sample chemistry (interference patterns). Reconstituted Pyrotell-T LAL reagent is used at a ratio of 1:1 or 4:1 and a LAL volume of 100 µL/well (48 tests/vial) or 50 µL/well (96 tests/vial).

Performing the Test

The Pyrotell-T sample mixture is incubated in an optical reader at 37±1°C and read at wavelengths depending on the instrumentation and user choice. The time of incubation is dependent on the lowest standard concentration in the standard curve. Software is used to construct the standard curve and calculate the endotoxin concentrations.

Reconstitution

Pyrotell-T may be reconstituted with 5 mL of LAL Reagent Water (LRW) (or equivalent), Pyrosol® buffer, or Glucashield® buffer, depending on the demands of the sample being tested. Pyrosol buffer provides extra pH buffering capacity. Glucashield buffer, a (1→3)-β-D-Glucan inhibiting buffer, is used to render the assay endotoxin specific.

Stability

Once reconstituted, Pyrotell-T is stable for 24 hours, if stored at 2–8°C. Pyrotell-T may be frozen once and will retain activity for as long as 3 months if stored at or below -20°C.

Packaging

Pyrotell-T is available in multi-test vials. Each vial contains reagent for approximately 96 tests (when used with the Pyros Kinetix Flex tube reader and 4:1 sample to LAL ratio) or 48 tests (when used with 1:1 ratio and/or in a microplate reader). It is recommended for use with the 0.5 µg/vial Control Standard Endotoxin (CSE, E0005-1). Certificates of Analysis, specific to the Pyrotell-T and CSE lot, can be obtained from ACC or online at www.acciusa.com.

Accessory Products

1. LAL Reagent Water, available in multiple package sizes, see page 14
2. Control Standard Endotoxin, *E. coli* O113:H10, 0.5 µg/vial (E0005-1)
3. Glucashield Buffer, (1→3)-β-D-Glucan Inhibiting Buffer (GB051-5)
4. Pyrosol LAL Reconstitution Buffer (BC051-5)
5. Pyrotubes®, 8 x 75 mm borosilicate glass test tubes (TK100-10)
6. Pyrotubes, 13 x 100 mm borosilicate dilution tubes (TB013-5)
7. Pyroplate®, 96-well microplate (CA961)
8. 250 µL Pipette tips (PPT25)
9. 1000 µL Pipette tips (PPT10)
10. Pyros Kinetix® Flex tube reader and EQS Software, see pages 12 and 13

Pyrotell®-T Multi-Test 5 mL/vial (approx. 50 tests/vial)

#T0051-5 ----- 5 pack (250 tests)
#T0051-25 ----- 25 pack (1250 tests)

For more information please visit our website at www.acciusa.com or contact Customer Service at (508) 540-3444.