

Beta-Lactamase Inhibitor Screening Kit

Cat. No. KITZ-062 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

β -Lactamase (beta-lactamase, β L, EC 3.5.2.6) is an enzyme first identified in Escherichia coli and has been described as penicillinase. A number of β Ls have since been identified from various bacteria. β -Lactamases specifically hydrolyze β -lactam rings present in antibiotics such as penicillin, cephalosporins, monobactam, and carbapenem, and confer resistance against these antibiotics.

The β -Lactamase Inhibitor Screening Kit is a rapid, simple and sensitive assay that is suitable for high throughput screening of β -Lactamase inhibitors. β L activity is measured by hydrolyzing a chromogenic cephalosporin called nitrocefin, producing a colorimetric product (A490), proportional to the enzymatic activity present.

Size The kit is sufficient for 100 assays in 96 well plates.

Storage The kit is shipped on wet ice. Storage at -20°C, protected from light, is recommended.

Shipping Ice pack

Kit Components

β -Lactamase Assay Buffer 25 mL
Nitrocefin, in DMSO 0.1 mL
 β -Lactamase 1 vL
Inhibitor Control, Clavulanic acid 1 vL

Materials Required but Not Supplied

96 well flat-bottom plate. It is recommended to use clear plates for colorimetric assays.
Spectrophotometric multiwell plate reader

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Dimethyl sulfoxide (DMSO)

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