

Fumarase Specific Activity Assay Kit

Cat. No. Kit-0345 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Fumarase Specific Activity Assay Kit is a novel assay that uses a high affinity monoclonal capture antibody to selectively isolate fumarase (FH), which removes all other enzymes of the Krebs cycle and NAD⁺/NADH utilizing enzymes. After isolation and subsequent measurement of the enzyme's functional activity, the quantity of isolated FH is measured in the same well by adding a second monoclonal detector antibody, which is quantified using a colorimetric label (HRP). Both reactions take place in time-dependent manners proportional to the amount of enzyme captured in each well. By combining activity and quantity measurements, the enzyme's relative specific activity can be determined. Specific activity is useful for measuring up or down regulation of activity by site-specific modification or damage, and in response to specific inhibitors.

Applications Sandwich ELISA

Target Species Reacts with: Rat, Cow, Human
Does not react with Mouse

Storage

All components are shipped cold. Upon receipt store 200X Fumarate, 200X NAD⁺, 100X Coupler and 100X Reagent Dye at -20°C or preferably at -80°C for longer stability. Store all other components at 4°C.

Kit Components

Components 96 tests
 100X Coupler 1 x 250µl
 100X Detector Antibody 1 x 130µl
 100X HRP Label 1 x 130µl
 100X Reagent Dye 1 x 250µl
 10X Blocking Buffer 1 x 10ml
 1X Base Buffer 1 x 25ml
 2000X Malate dehydrogenase 1 x 20µl
 200X beta NAD⁺ 1 x 250µl
 200X Fumarate (1M) 1 x 250µl
 20X Wash Buffer 1 x 25ml
 96-well microplate (12 strips) 1

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unitExtraction Buffer 1 x 15mlTMB Development Solution 1 x 12ml

Detection method Colorimetric

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