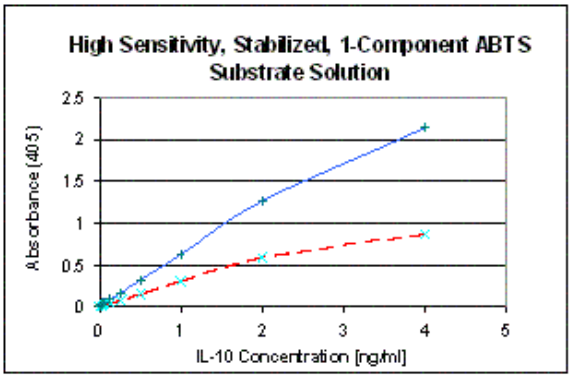
full spectrum cell analysis®
eBioscience®

Super AquaBlue ELISA Substrate

Catalog Number: 00-4203
RUO: For Research Use Only



Comparison of Conventional ABTS and New Super AquaBlue ELISA Substrate Solution for Mouse IL-10 ELISA. Mouse IL-10 ELISA was performed using unlabelled JES5-16E3 antibody for capture and biotinylated JES5-2A5 antibody for detection, in conjunction with streptavidin-HRP and ABTS (Conventional or new Super AquaBlue ELISA Substrate). ELISA microwell plates were read by spectrophotometer at 405 nm after 20 minutes of color development. Super AquaBlue ELISA Substrate (upper, blue line) yielded greater signal than conventional ABTS (lower, red dotted lines), while maintaining low background.

Product Information

Contents: Super AquaBlue ELISA Substrate
REF Catalog Number: 00-4203

Temperature Limitation: Store at 2-8°C.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial

Description

eBioscience's new Super AquaBlue ELISA Substrate is an enhanced ABTS (2,2'-azino-bis-(3-ethylbenzthiazoline-6-sulfonic acid)) substrate solution for ELISA which provides high signal and sensitivity, low background. It is safe, stable, and extremely convenient to use. Like conventional ABTS substrate solutions, eBioscience's new Super AquaBlue ELISA Substrate is oxidized by horse-radish peroxidase (HRP) - labeled probes resulting in a soluble, blue-green colored end product, whose absorption is measurable by spectrophotometer at 405 nm.

Unlike other ABTS solutions, Super AquaBlue ELISA Substrate is highly sensitive, extremely stable (18 months at room temperature or 24 months at 4°C). It is engineered for convenience as a single component (no additional H2O2 or other components are necessary).

Super AquaBlue ELISA Substrate is suitable for endpoint reactions, but is also ideal for kinetic assays; stopping the reaction with acid stop solution does not change the color or absorption properties of the blue-green end product.

Applications Tested

Super AquaBlue ELISA Substrate is tested as a substrate for ELISA, with horse-radish peroxidase as the activating enzyme, yielding a soluble blue-green colored endproduct, which can be read spectrophotometrically at 405 nm.
1. Complete all antibody and HRP labeled reagent incubations.
2. Wash ELISA plate 4 times with PBS/Tween.
3. Decant and blot ELISA plate.
4. Add 100 ul of ABTS Substrate Solution to each well and incubate at RT. Absorption (OD 405 nm) can be read and re-read over time to identify optimal color development.
5. If desired, the color reaction can be stopped by addition of 100 ul of 0.625M oxalic acid. This does not alter the color or absorption spectrum of the blue-green colored end-product.

Related Products

00-4202 ELISA Diluent Solution (5X)
18-4100 Avidin HRP
44-2404 Nunc MaxiSorp® flat-bottom 96 well plate

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