

# ABTS Microwell Peroxidase Substrate System



<u>Catalog No.</u>	<u>Size</u>
50-62-00	600 mL
50-62-01	2700 mL

## DESCRIPTION

This 2 component liquid substrate system develops a blue-green product when reacted with peroxidase labeled conjugates in Microwell plates. It is not recommended for membrane or immunohistochemical staining assays. See KPL's catalog for appropriate substrates.

## FORM

**Catalog No. 50-62-00 consists of the following:**

- 3 x 100 mL ABTS Solution A (Catalog No. 50-64-00)
- 3 x 100 mL Peroxidase Solution B (Catalog No. 50-65-00)

**Catalog No. 50-62-01 consists of the following:**

- 3 x 450 mL ABTS Solution A (Catalog No. 50-64-02)
- 3 x 450 mL Peroxidase Solution B (Catalog No. 50-65-02)

## CONTENT

The ABTS Microwell Peroxidase Substrate System contains 2,2'-azino-di-(3-ethylbenzthiazoline-6-sulfonate) at a concentration of 0.3 g/L in a glycine/citric acid buffer. The concentration of the H<sub>2</sub>O<sub>2</sub> is 0.01%.

## STORAGE/STABILITY

Store at 2 - 8°C. Stable for a minimum of 1 year when stored at 2 - 8°C.

## USE

**Preparation:** Mix equal volumes of ABTS Solution and Peroxidase Solution B. Warm to room temperature before use.

**Substrate Development:** Following incubation with peroxidase labeled conjugate, wash plate thoroughly. Add 100 µL prepared substrate solution to each well. As the color develops, tap gently to mix. Incubation times will vary depending on your assay.

**To Stop Reaction:** Stop reaction by adding an equal volume of ABTS Peroxidase Stop Solution (See RELATED PRODUCTS) or 1% sodium dodecyl sulfate (SDS) to the microwell plate. This will halt color development. ABTS substrate will remain blue-green after addition of stop solution.

**To Read Reaction:** Read at a wavelength between 405 - 410 nm. Stopped reaction should be read within 30 minutes.

**When to Stop Substrate Reaction:** The point at which the substrate reaction is stopped is often determined by the ELISA reader. The O.D. values of the plate should be monitored and the reaction stopped before positive wells are no longer recordable.

**To Reduce Substrate Intensity:** Background is a sign of over-reaction with ABTS. To reduce the intensity of the substrate reaction, further dilution of the primary antibody and/or conjugate is recommended. Dilution of the substrate is not recommended.

## ABSORBANCE MEASUREMENTS

### Kinetic Assays:

ABTS substrate produces a blue-green color upon reaction with peroxidase. Read at a wavelength between 405 - 410 nm.

### Endpoint Assays:

The addition of 100 µL (or an equal volume) of stop solution to the microwell plate will halt color development. Read at a wavelength between 405 - 410 nm. Stopped reactions should be read within 30 minutes.

## RELATED PRODUCTS

ABTS Peroxidase Solution A 5000 mL	Catalog No. 50-64-09
ABTS Peroxidase Solution A 11250 mL	Catalog No. 50-64-25
Peroxidase Solution B 5000 mL	Catalog No. 50-65-03
Peroxidase Solution B 11250 mL	Catalog No. 50-65-25
ABTS Peroxidase Stop Solution	Catalog No. 50-85-01
Wash Solution Concentrate	Catalog No. 50-63-00
BSA Diluent/Blocking Solution Concentrate	Catalog No. 50-61-00
Coating Solution Concentrate	Catalog No. 50-84-00

See KPL's catalog for a list of antibodies, conjugates, substrates and complete systems for ELISA, blotting and immunohistochemistry.

## PRODUCT SAFETY AND HANDLING

See MSDS (Material Safety Data Sheet) for this product.

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