



ABTS Microwell Substrate

Product Insert

NO DMF
OR DMSO

Description

ABTS Substrate is a one-bottle, ready to use substrate for HRP microwell applications. It contains 2,2'-azino-bis(3-ethylbenzthiazoline-6-sulfonic acid)-diammonium salt in a mildly acidic buffer. Unreacted substrate should be colorless to very light green in appearance. ABTS develops a blue-green color in the presence of a peroxidase labeled conjugate. The reaction can be stopped using 1% SDS stop solution. ABTS substrate is not applicable for use with assays requiring a precipitating substrate. This formulation contains NO DMF or DMSO.

Stability and Storage

ABTS Substrate is stable for a minimum of 36 months when stored at 4°C. Storage is recommended at 2 – 8°C.

Custom Packaging Service

Neogen can package ABTS Microwell Substrate in custom bottle sizes and volume fills to meet your specific packaging requirements. This service is a time and cost saving feature for any test kit manufacturer. For details on this service, please contact a Neogen Corporation representative.

Product #	Volume
310189	25 mL
310247	100 mL
310177	1 liter

Recommended Handling

Please note the following precautions when handling Neogen's ABTS substrate:

Light Exposure - Direct exposure to sunlight should be avoided. Prolonged exposure of the substrate to light (especially sunlight) should be avoided.

Storage Containers - ABTS should be stored in high quality amber colored plastic or glass bottles. Neogen recommends HDPE amber bottles.

Redispensing Precautions - Neogen recommends that while dispensing the ABTS substrate the filling environment should be a slightly darkened room. Neogen recommends that only plastic or glass come in contact with the substrate. When using a dispensing pump make sure that no metal components of the pump come in contact with the substrate. It is also recommended that all pumps, tubing and storage containers be dedicated for use with ABTS Substrate only. Neogen recommends Marprene (UV resistant) tubing.

To avoid contaminating the entire bottle of substrate, never pipette directly from the substrate bottle. Always pour necessary volume of substrate into a separate container for use. Do not leave the cap off of the storage bottle for prolonged periods of time.

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Directions for Use

ABTS Microwell Substrate is a ready-to-use substrate. No mixing or additional reagents are required.

1. Allow the substrate to reach room temperature (25°C) before use.
2. For immunoassay microwell applications, add 100 µL of substrate solution to each well. For best results use a multichannel pipette for a full 96 well microplate.
3. Incubate the microplate and the substrate will produce a soluble blue-green product.

Note: Neogen does not recommend diluting the substrate. Should the absorbance produced during the reaction be too high, the following changes can be made:

- Adjust assay incubation times
 - Adjust the concentrations or volumes of the other assay reagent such as the antibody or conjugate.
4. After the recommended incubation time, gently shake the microplate to evenly distribute the colored product. Measure the absorbance in the assay wells using a microplate reader set at wavelength of 405 to 410nm. For best results, OD values should be read before absorbance values exceed 2.0 OD units.
 5. Optional: to stop the substrate reaction equal volumes of 1% sodium dodecyl sulfate (SDS) may be used. Measure the absorbance in the assay wells using a microplate reader set at wavelength of 405 to 410nm.

Technical Information

For technical support, please contact our Technical Service Department, Monday - Friday from 8:00 am - 6:00 pm EST.

Phone: 800/477-8201 (USA/CANADA)

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Warranty

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