

Product Information

ABTS Enhancer

Catalog Number **A1227**

Storage Temperature 2–8 °C

Product Description

The detection of the horseradish peroxidase substrate ABTS (2,2'-azino-bis(3-ethylbenzothiazoline-6-sulfonic acid) can be improved by the addition of a chemical enhancer. The ABTS Enhancer increases the absorbance of the oxidized product 50–150%. This increase can be used to improve assay sensitivity or conserve assay components. This enhancer, however, is not recommended for membrane or immuno-histochemical applications that require a precipitated reaction product.

The ABTS Enhancer has been formulated for use with the 2,2'-azino-bis(3-ethylbenzothiazoline-6-sulfonic acid Liquid Substrate System (Catalog Number A3219) and has not been evaluated with other ABTS solutions.

This product is supplied as an 11x concentrate. It is a clear to peach-tan liquid.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

This solution is light sensitive and should be protected from direct sunlight or UV sources in a tightly capped bottle.

Storage/Stability

The product is shipped at ambient temperature and storage at 2–8 °C is recommended. This solution remains active for a minimum of one year when stored in the original container at 2–8 °C.

Procedure

For multiwell applications, add 1 ml of ABTS Enhancer to 10 ml of ABTS Liquid Substrate System (Catalog Number A3219). Mix gently for ~1 minute and use 100 µl of the mixture per well.

Following the reaction, a colored product forms that may be read at a wavelength between 405–410 nm. Absorbance values of the reaction should be monitored and read before an absorbance value of 2.0 is attained.

Alternatively, the peroxidase reaction can be stopped by addition of 100 µl of 1% of sodium dodecyl sulfate (SDS). Stopped reactions are also read in the range of 405–410 nm.

To reduce the absorbance of the peroxidase reaction, dilution of the substrate is not recommended. To reduce the absorbance of a reaction, it is recommended the antibodies or conjugates used be diluted instead.

CS,MAM 07/09-1

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