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Product Information

NITRO BLUE TETRAZOLIUM (NBT) TABLETS

Product No. **N5514**

Product Description

Nitro Blue Tetrazolium (NBT) is used in conjunction with the alkaline phosphatase substrate 5-Bromo-4-Chloro-3-Indolyl Phosphate (BCIP) (Product No. B0274) in immunoblotting and immunohistological staining procedures. This substrate system produces an insoluble end product that is blue in color and can be observed visually.

Substrate Content	10 mg
Appearance	Yellow, round tablet, 5/32" in diameter.
Tablet Weight	25 mg (range 22.5 - 27.5 mg)
Solubility*	Clear, yellow solution
Dissolution Time*	Not more than 5 minutes
pH*	5.0 (range 4.5 - 5.5)
Activity	Comparable to the untableted powder in the BCIP/NBT substrate system.
Packaging	10 or 25 tablets per bottle. Custom packaging and bulk purchase information available upon request.

*One tablet dissolved in 1 ml of deionized water

Uses

NBT Stock Solution

Prepare NBT stock solution by dissolving one NBT tablet in 1 ml of deionized water.

BCIP Stock Solution

Prepare BCIP stock solution by dissolving one BCIP tablet (25 mg substrate content, Product No. B0274) in 0.5 ml 100% dimethylformamide (DMF, Product No. D4254).

Substrate Buffer

0.1 M Tris, 100 mM sodium chloride, 5 mM MgCl₂, pH 9.5, adjust pH with HCl.

Substrate Solution

Prepare substrate solution by adding 330 µl of NBT stock solution to 10 ml of substrate buffer, mix, then add 33 µl of BCIP stock solution, mix.

Storage

Store tablets at 2-8°C.

References

1. Blake, M.S., Anal. Biochem., **136**, 175 (1984).
 2. Horowitz, J.P., et al., J. Med. Chem., **9**, 447 (1966).
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