

Product Information

3,3'-Diaminobenzidine tetrahydrochloride 10 mg tablets

Catalog Number **D5905**
Storage Temperature $-20\text{ }^{\circ}\text{C}$

CAS RN 7411-49-6
Synonym: DAB

Product Description

3,3'-Diaminobenzidine tetrahydrochloride (DAB) is a horseradish peroxidase substrate suitable for use in immunoblotting and immunohistological staining procedures. This substrate produces an insoluble, brown end product, which can be observed visually. The end product is not alcohol-soluble; therefore, a variety of counterstains and mounting media can be used.

Components

50 or 100 tablets per box, individually foil-wrapped for ease of use, storage, and safety. Custom packaging and bulk purchase information available upon request.

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.

Preparation Instructions

Allow each tablet to reach room temperature before use. Dissolve a tablet in 15 ml of Tris-buffered saline, pH 7.6 (Tris-buffered saline tablet, Catalog Number T5030 may be used). Add 12 μl of fresh 30% hydrogen peroxide (Catalog Number H1009) prior to use. The solution may be filtered through a 0.2 μm filter immediately prior to use if necessary. DAB and hydrogen peroxide concentration may be adjusted to suit individual applications.

Tablets may be gently crushed prior to adding to water, taking up to five minutes to dissolve. Dissolving will take somewhat longer for intact tablets added directly to buffer solutions. Buffer pH will also affect solubility. High pH will deprotonate DAB to its free base, which is not water-soluble.

Storage/Stability

Store the tablets at $-20\text{ }^{\circ}\text{C}$. Protect from heat, light, and moisture.

References

1. Nakane, P.K., and Pierce, G.B., J. Histochem. Cytochem., **14**, 929 (1967).
2. Barile, F., and Trombetta, L.D., J. Histochem., **5**, 12 (1982).
3. Manual of Clinical Laboratory Immunology, 3rd. ed., Rose, N.R. et al., eds., ASM, Washington, D.C. (1986).
4. Hsu, S., and Soban, E., J. Histochem. Cytochem., **30**, 1079 (1982).

RBG,KMR,MAM 11/09-1

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