

## Product Information

## 3,3'-Diaminobenzidine tetrahydrochloride

Tablet, 10 mg substrate per tablet

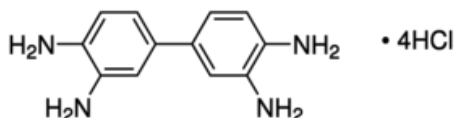
**D5905**

### Product Description

CAS Registry Number: 7411-49-6

Synonyms: DAB, 3,3',4,4'-Biphenyltetramine tetrahydrochloride, 3,3',4,4'-Tetraaminobiphenyl tetrahydrochloride

Structure of 3,3'-Diaminobenzidine (DAB) tetrahydrochloride:



3,3'-Diaminobenzidine tetrahydrochloride (DAB) is a horseradish peroxidase substrate that is suitable for use in immunoblotting and immunohistological staining procedures.<sup>1-4</sup> This substrate produces an insoluble, brown end product, which can be observed visually. The end product is not soluble in alcohol. Therefore, a variety of counterstains and mounting media can be used.

Several publications<sup>5</sup> dissertations have cited use of product D5905 in their research.<sup>6-24</sup>

### Components

This product is provided either as 50 tablets (50TAB) or 100 tablets (100TAB) per box, individually foil-wrapped for ease of use, storage, and safety.

### Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

### Storage/Stability

Store the tablets at -20 °C. Protect from heat, light, and moisture.

### Preparation Instructions

- Allow each DAB tablet to reach room temperature before use.
- Dissolve a DAB tablet in 15 mL of Tris-buffered saline, pH 7.6.
- Add 12 µL of fresh 30% hydrogen peroxide 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.

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