

## Diaminobenzidine (DAB) Solutions

(Greg A. Perry, Ph.D.)

### Equipment:

1 liter flask/beaker  
Stir plate

Stir bar  
pH meter

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### DAB Stock Solution

#### Reagents:

500 mg 3,3'-diaminobenzidine-tetrahydrochloride (DAB)  
100 ml 0.05M Tris Buffer (pH 7.6)

#### Method:

- 1) Add DAB to Tris buffer with constant stirring and mix well.
- 2) Freeze in 5ml aliquots at -20°C for later use.

**Special Note:** *DAB is extremely carcinogenic. Use extreme caution!*

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### DAB Working Solution

#### Reagents:

5 ml DAB Stock  
45 ml 0.05M Tris Buffer (pH 7.6)  
16.7 µl 30% Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>)

#### Method:

- 1) Add DAB stock to Tris buffer and mix well.
- 2) Immediately before use add hydrogen peroxide to this solution

**Special Note:** *DAB is extremely carcinogenic. Use extreme caution!*