

# DAB tablets

## Product Information

<b>Name:</b>	<b>DAB tablets, HRP substrate,</b> for the <i>in situ</i> detection of membrane-bound Horseradish Peroxidase activity
<b>Cat. number:</b>	UP732310, 50 tablets (contains 5mg/tablet) UP732311, 100 tablets
<b>Description:</b>	Each tabs dissolved in 10ml of water gives a ready-to-use solution
<b>Appearance:</b>	light lavender 0.95cm tablets
<b>Immunoperoxidase Assay:</b>	PASS
<b>pH</b> (1 tab/10 mL Water):	4.8-5.2
<b>Applications :</b>	Blotting techniques, Histochemistry
<b>Storage :</b>	Tablets are stable for up to 1 year when stored frozen and desiccated (M) Avoid exposure to moisture and light
<b>Security note:</b>	DAB is a suspected carcinogen. R36/37/38-45-42/43 S:36/37/39

## Directions for use

**DAB** (3,3'-Diaminobenzidine tetrahydrochloride, CAS:91-95-2) is a chromogenic substrate, commonly used for detecting Horseradish Peroxidase activity in membrane-bound and *in situ* applications. Its red-brown, insoluble end-product is resistant to alcohol and non-fading, making it especially useful for immunohistochemical assays. Unfortunately, this substrate is highly unstable in solution and therefore is usually prepared fresh for each use.

DAB Substrate **Tablets** are an easy, convenient way to prepare fresh DAB solutions, in optimized buffer, in minutes. Each quick-dissolving tablet contains 5 mg of 3,3'-Diaminobenzidine tetrahydrochloride in a 240 mg total weight tablet. When dissolved in 10 ml deionized water, the tablet creates an optimized, pH 5.0 buffer containing 150mM Sodium Chloride. This buffer provides sensitivity 5- to 10-fold greater than standard Tris buffer systems. The substrate solution is stable for 2-3 hours at room temperature after re-constitution. Simply add 0.1% v/v hydrogen peroxide (#15983Q) immediately before use.

Incubate for 5min-1hour depending on your detection system.

In immuno dot-blot assays, Uptima DAB Substrate Tablets routinely detect mouse IgG at concentrations of 4.88 x 10<sup>-5</sup> mg/ml, using Horseradish Peroxidase-conjugated goat anti-mouse IgG at a 1:2500 dilution. Background is negligible. Salt concentrations are optimized for use in membrane-bound or *in situ* detection.

### Related reagents

[BioSciences Innovations catalogue](#) and [e-search tool](#).

\*other reagents for immunodetections with DAB substrate:

Hydrogen Peroxide #15983Q  
WB:HRP-labeled secondary antibodies (p.A324)  
HRP labeled (strept)avidins (A350)  
ProTran 0.2µm NC membranes, 20x20cm, #S31441  
Blotting paper 1mm thick, 460x570cm, #BP2791  
Stains: Protein Membrane Reversible stain #20078A

buffers and saturants (A365):  
SeaBlock agent #UP40301A  
TBS with non fat milk #GS4160  
TBS with Tween20 #GS4200  
BSA #UPQ84170 (powder) or #UP900130 (soln 30%)  
BioBlock Saturating agent for blotting (inTBS) #N13650  
Non fat milk powder #768701

\*Other substrates for HRP: chemiluminogenic: UptiLight Classic #UP996190, spray #BM4961, UltraSensitive #58372A  
chromogenic: DAB tablets #732310 op-Metal Enhanced DAB kit #679921

For any question, ask Uptima or your local Distributor

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