
DAB, Biotechnology grade

Product Description

Name:	DAB tablets, HRP substrate, for the <i>in situ</i> detection of membrane-bound Horseradish Peroxidase activity
Applications :	Blotting techniques, histochemistry
Description:	Each tabs dissolved in 10ml of water gives a ready-to-use solution
Storage :	Tablets are stable for up to 1 year when stored frozen and desiccated. Avoid exposure to moisture and light.

Specifications

Appearance:	light lavender 0.95cm tablets
Immunoperoxidase Assay:	PASS
pH (1 tab/10 mL Water):	4.8-5.2

Directions for Use

DAB (3,3'-Diaminobenzidine tetrahydrochloride) 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 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 10⁻⁵ 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.

For any question, ask Uptima or your local Distributor

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contact your local distributor

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