

Novocastra™ Substrate Reagent

3, 3' Diaminobenzidine

Tetrahydrochloride Tablets

Product Code: NCL-DAB

Intended Use	FOR RESEARCH USE ONLY.
Substrate content	10 mg
Appearance	Greyish-pink, round tablet, 4 mm in diameter.
Tablet weight	32 mg (range 28.8 - 35.2 mg).
Solubility	Light pink, hazy solution.
Dissolution time	Not more than 15 minutes.
pH	5.0 (range 4.8–5.2).
Activity	100% (range 90–110%).
Recommended usage	Dissolve one DAB tablet in 10 mL of Tris-buffered saline pH 7.6. In a separate tube, add 0.2 mL hydrogen peroxide (30% w/v) to 5.8 mL distilled water. Shake well. Add 0.2 mL diluted hydrogen peroxide solution to dissolved DAB tablet solution. Mix well. Filter to remove any particles.
Storage	Store tablets below 0 °C. Protect from heat, light and moisture. Allow to reach 25 °C before use.
Safety	DAB is a possible carcinogen. Avoid contact. Use gloves and mask when handling tablets.
General Overview	3, 3' Diaminobenzidine Tetrahydrochloride (DAB) is a horseradish peroxidase substrate suitable for use in immunoblotting and immunohistological staining procedures. This substrate produces an insoluble end product that is brown in color and can be observed visually. The end product is not alcohol soluble, therefore, a variety of counterstains and mounting media can be used.
General References	Manual of Clinical Laboratory Immunology, 3rd ed. Rose N R, Freidman H and Fahey J L, eds. ASM, Washington DC (1986). Barile F and Trombetta L D. Journal of Histochemistry. 5: 12-14 (1982). Hsu S and Soban E. Journal of Histochemistry and Cytochemistry. 30 (10): 1079–1082 (1982). Nakane P K and Pierce G B. Journal of Histochemistry and Cytochemistry. 14 (12): 929–931 (1967).

