

ImmunoBioScience Corp. (IBSC)

DATA SHEET

Tetramethylbenzidine IHC (IHC, ICC, *In Situ*) (Ready-to-use) Peroxidase, chromogen substrate for Immunohistochemistry (IHC), Immunocytochemistry (ICC) or *In Situ*. (One component)

Catalog number: AR-8225-01 50 ml
 AR-8225-02 100 ml
 AR-8225-04 500 ml

Description: This 3,3',5,5'- tetramethylbenzidine (TMB) is a insoluble chromogen substrate for horseradish peroxidase detection systems for **IHC, ICC and *In Situ*** hybridization. This is ready to use one component system and gives aqua brilliant blue color with peroxidase. Neutral Red color can be used as a counterstain. This TMB solution contains TMB, 1.25 mMol L⁻¹, Hydrogen Peroxide substrate, acetate buffer, pH 4.9, non-toxic proprietary stabilizers and precipitating agents.

Intended use: Immunohistochemistry (IHC), Immunocytochemistry (ICC), and *in situ* hybridization. It s ready to use and does not require any preparation.

Storage: 2-8°C

Application: TMB-IHC chromogen is very sensitive. It is recommended that the peroxidase should be dilute (approx. 16X) compared to DAB used as chromogen, e.g. if peroxidase is diluted 1:100 for DAB, one should use approx. 1:1600 dilution of peroxidase when TMB is used.

1. After the peroxidase reaction, wash slides thoroughly with PBS or Tris-HCl saline containing 0.1 % Tween 20. *DO NOT ADD THIMEROSAL, azide or phenolic compounds as preservative in any buffers.*
2. Add TMB-IHC solution and incubate for 5-15 minutes at room temp.
3. Stop reaction by washing thoroughly with distilled or deionized water.
4. Counterstain with Neutral Red solution 30-60 seconds.
5. Rinse slides with distilled water, dehydrate with gradient of alcohols, xylene or any other clearing agent.
6. Mount slides with organic mounting medium or our Organo/Limonene mount (AR-6504).
7. Brilliant blue color is observed with TMB.

The optimum time of incubation for TMB should be determined by the individual lab.

ANOID EXPOSURE TO LIGHT

Discard if the solution is blue or turbid.

The reaction mixture can be discarded according to city, county, state, province or country's regulations.

Limitation and warranty: Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

MSDS: Avoid skin and eye contact with all laboratory products. Use appropriate lab. gear, lab coat , gloves and safety glasses. Do not ingest any lab. products. This product is not approved for administration in human or animals.

For research use only; not for use in diagnostic procedures.

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