

TMB Substrate, soluble, 1-part

<u>Catalog No.</u>	<u>Size</u>
AR100018	100 ml
AR100019	1 Liter

Description

Liquid TMB (tetramethylbenzidine) substrate for horseradish peroxidase for use in ELISA. This product is a 1-part formulation that does not require addition of hydrogen peroxide. The reaction with the substrate produces a soluble end product which is blue in color and that is quantitated at 650 nm. Use of a stop solution enhances sensitivity 2- to 4- fold and the resulting yellow solution can be quantitated at 450 nm. TMB has not been found to be mutagenic or carcinogenic at this time.

This product is not suitable for membrane or immunohistochemical staining.

Appearance

Clear solution with a slight yellow tint.

Form

Liquid, ready to use

Storage

Store at 4°C. Do not freeze.

Stability

Stable for a minimum of one year from date of receipt when stored at 4°C.

Use and Handling

For ELISA, add 100 µl per well. As the color develops, mix gently from time to time. Incubate for 5-30 minutes at room temperature depending upon your assay. Read absorbance at 650 nm. For enhanced sensitivity, add 100 µl Stop Solution to each well and incubate for 5 minutes. Then read absorbance at 450 nm.

Precautions

- Avoid exposure to direct sunlight. Indirect laboratory lighting should pose no problems.
- Do not pipette directly from the bottle. Pour required amount into a clean plastic container or reservoir. Do not return excess material to the bottle.
- If substrate has turned blue before addition to the well, it has been contaminated. Do not use. Open a fresh bottle before continuing.

Resources

ELISA and Luminex assay protocols are available in OriGene's ELISA Development Guide. (www.origene.com/assets/documents/ELISA_guide.pdf).

<u>Related Products</u>	<u>Amount</u>	<u>Catalog No.</u>
ELISA Wash Buffer (10X)	100 ml	AR100010
ELISA Wash Buffer (10X)	1 Liter	AR100011
Assay Buffer A	100 ml	AR100012
Assay Buffer B	100 ml	AR100013
Assay Buffer C	100 ml	AR100014
Assay Buffer D	100 ml	AR100015
Assay Diluent	100 ml	AR100016
Streptavidin-HRP Conjugate	1 ml	AR100017
Stop Solution	100 ml	AR100020
Stop Solution	1 Liter	AR100021

See OriGene's website for a full list of ELISA and Luminex-validated antibody pairs. (www.origene.com/Antibody/ELISA).

For research use only. Not for use in diagnostic procedures.