

# OneCom<sup>®</sup> TMB HRP Substrate

## Ready-to-Use

Catalog #	Pack size	Price(€)
ZC00102	100ml	68.00
ZC00103	250ml	153.00

### Description:

OneCom HRP substrate contains 3,3',5,5'-tetramethylbenzidine (TMB). It is for use in Horseradish peroxidase-based, colorimetric techniques. It is a stable, non-flammable, and safe alternative to other peroxidase chromogens. It is non-carcinogenic.

One component TMB is widely used for peroxidase-based enzyme immunoassays. Upon oxidation, TMB forms a water-soluble blue reaction product that can be measured spectrophotometrically at 650nm (OD value < 0.04). Upon acidification, the reaction product becomes yellow with an absorbance peak at 450nm.

### Precautions:

For professional users, and wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.

Unused solution should be disposed of according to local, State and Federal regulations.

### Storage:

Store at 2–8°C. Do not freeze. Protect from light.

Do not use after expiration date stamped on vial. If reagents are stored under any conditions other than those specified, the conditions must be verified by the user.

### Usage procedure:

1. Before usage, let the solution equilibrate at room temperature.
2. Add 100 µL of TMB substrate-chromogen to wells containing peroxidase.
3. React for approximately 15~30 minutes according to the requirement. Positive wells will turn blue.
4. Stop reaction by adding an equal volume of acid (such as 1N HCL or 2N H2SO4) stop solution to each well. Positive wells will turn yellow. Negative wells will be clear.
5. Visually determine results. If required, wells can be read spectrophotometrically at 450nm. Blank spectrophotometer against an appropriate substrate well in which no reaction has occurred.

Staining Unstopped reaction Interpretation Positive wells will display a blue reaction product with an absorbance peak at 650nm.

Addition of an acid stop solution which will increase absorbance readings by approximately 50%. Acidified reaction product will be yellow with an absorbance peak at 450nm.

### Note:

The intensity of the acidified reaction product may change over time. For best results, read immediately after limitations adding acid stop solution.

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## Related Products:

ZB055	HRP Enzyme Stabilizer	EUR700.00/500g
ZB116	ProClin300	EUR200.00/500ml
ZK00901	LumiPico ECL Kit	EUR29.70/25ml



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## Shanghai ShineGene Molecular Bio-tech Co.,Ltd.

Add: Floor 2, Building A, 328#, Wuhe Road, Shanghai 201109,

Tel: +86-21-54460832

Fax: +86-21-54460831

E-mail: [shinegene@vip.163.com](mailto:shinegene@vip.163.com)

Website: [www.synthesisgene.com](http://www.synthesisgene.com)