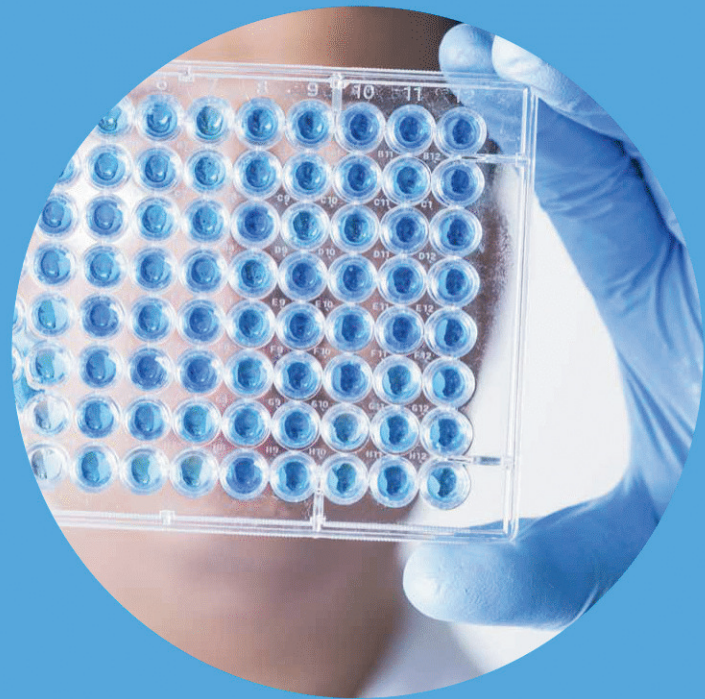


Substrates



PROVIDING CONSCIOUS IMMUNOASSAY SOLUTIONS

kementec

Distributed by
CliniSciences

Substrates

Kementec has developed and manufactured liquid TMB products over the past 30 years. We offer a wide range of different substrate formulations for ELISA, membrane and electrochemical assays.

Offering a shelf life up to 4 years of the ready-to-use substrates enables assay manufacturers to source this critical raw material following an economically viable plan.

Products can be developed and produced as customized solutions adapted to your specific application needs. Contact us for further details.

Soluble HRP Substrates

TMB ONE: "Gold Standard"
TMB PLUS2®: High robustness
TMB X-tra: High sensitivity
TMB EASE: 1:1 replacement of carcinogenic OPD
TMB X-tnd®: Non-precipitating at high OD, wash solution resistant

Soluble AP Substrates

pNPP: Highest sensitivity
pNPP ONE: High temperature robustness

Precipitating Substrates

BCIP/NBT: Intense stable blue/purple precipitates
TMB Blotting: Stable blue color
TMB-D Blotting: Superior background characteristics

Chemiluminescent Substrates

KemiLumin Sirius: Higher assay sensitivity
KemiLumin Vega: Reduced assay intensity



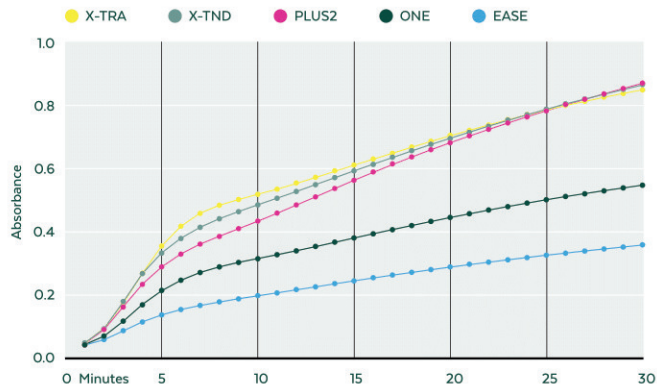
Our immunoassay solutions are developed in order to create a healthy and safe work environment and preserve natural resources, while helping our customers fulfill significant regulatory requirements.

We call it **ECO-TEK®**



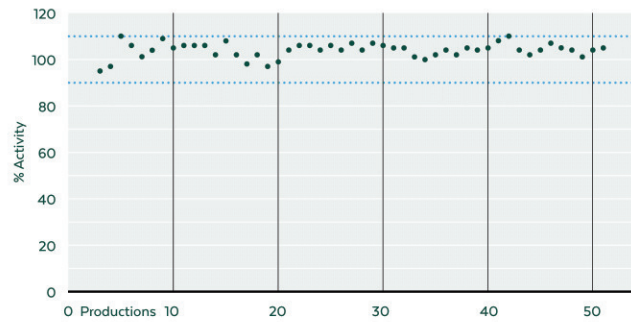
Prestained Solutions

Products are available colorcoded, prestained pink for traceable pipetting. The pink indicator is a benefit in manual and automatic dispensing. The color does not interfere with the endpoint or kinetics of the assay.



TMB Kinetics

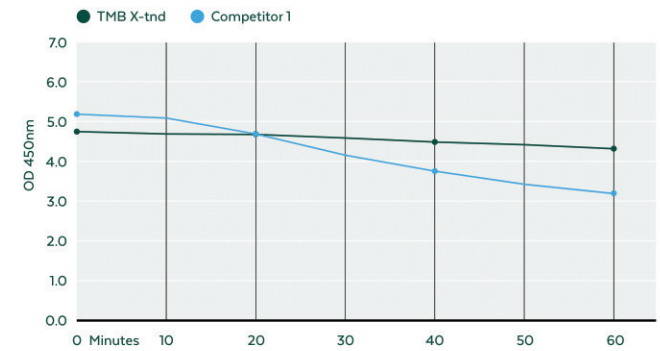
Sensitivity levels and speed of color development of the different TMB formulations shown at incubation time 1-30 minutes.



Lot-to-lot variation

In order to achieve high quality levels, rigorous QC standards ensure negligible lot-to-lot variations.

Lot-to-lot consistency, displayed in the example, shows the last 7 years productions of TMB PLUS2, which lie within a 20% interval.



Stop Solution Benefits

As we focus on environmentally safe products, Kementec substrates require low stop solution concentrations.

The superior stop stability maintains the final OD level, as illustrated, where Kementec's TMB X-tn is compared to 1 competitor. The stop stability up to 60 minutes drops to no more than 5% in the high OD area.

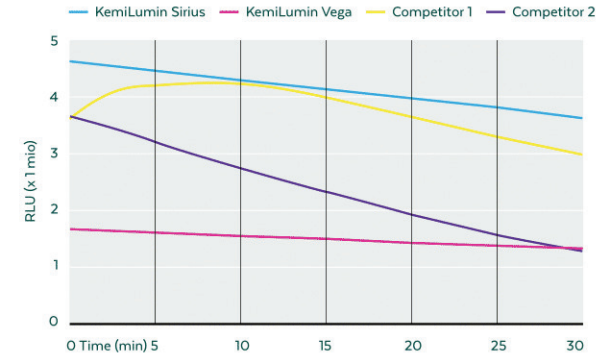
The use of our TMBs at room temperature

Over the years, we have consistently observed that our TMB substrates have shown excellent stability and performance when stored at room temperature, remaining effective without refrigeration. This stability improves storage flexibility and eliminates the need for cold chain logistics, allowing easier handling and operational ease.

Solutions for Chemiluminescence

KemiLumin Sirius and KemiLumin Vega are sensitive substrates which produce an intensive stable light, while offering a highly stable working solution, low signal to noise ratio, and low background characteristics. Both products are supplied as two components, A and B, which are to be mixed 1:1.

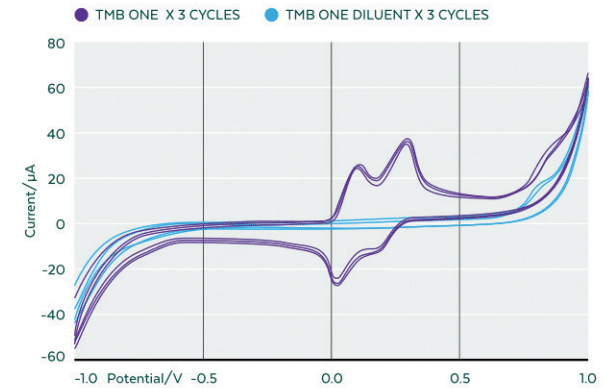
Both substrates work well in Immunoassays like: ELISA, Western Blot, Spot Arrays, Endpoint Assays, and Kinetic Immunoassays.



Solutions for Electrochemistry

TMB (3,3',5,5'-Tetramethylbenzidine), the most commonly used chromogen for HRP (Horseradish Peroxidase), has long been known for its chromogenic abilities in immunoassays. The same redox reactions that induce the color change in TMB can be measured electrochemically. This feature allows for TMB detection systems to be used in sensor based electrochemical assays.

Experience shows that our TMBs perform very well in several electrochemical settings and the various TMBs offer unique characteristics.



TMB ONE: pH: 3.80 - 4.20

TMB PLUS2®: pH: 3.50 - 3.90

TMB X-tn®: pH: 3.70 - 4.10

TMB X-tra: pH: 3.50 - 3.90

Profile

Kementec is a well-established, innovative, and service oriented company with more than 35 years of experience as a manufacturer and supplier of components to the industry and to researchers worldwide.

Being a market leader in developing solutions for immunoassays, our continuous goal is to deliver sustainable products without compromising on quality, sensitivity and accuracy.

Kementec values long lasting business relationships and the success of our customers. We consider ourselves more as a trusted partner than as a general supplier. A part of this vision is providing high quality colorimetric substrates and color-coded reagents, described as:

Colors of Success!



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Cat#	Description	Cond.
NB-45-00042-100	Super Ni-NTA Agarose Resin	100ml
NB-45-00042-25	Super Ni-NTA Agarose Resin	25ml
NB-45-00058-4	Proteus 1-step Batch Mini Spin Column Pack	40pc
NB-12-6001-3	NeoLine pipette 2-20 µl	1unit
NB-12-0023C	Mini Centrifuge N500C @10,000rpm (including 6x1.5/2.0ml angle rotor)	1pcs
NB-03-0160	Proteinase K (Powder)	100mg
NB-60-0001	NeoPrep mini	50columns
NB-12-8001-19	Combs for NeoPRO4 mini (1.5mm, 15 wells)	5pieces
NB-12-8001-20	Spacer glasses flat for NeoPRO4 mini (0.75mm, 100*63mm)	5pieces
NB-12-8001-04	Short glasses flat for NeoPRO4 mini (1.0mm, 100*73mm)	10pieces

“Remember, if you ever get lost or have questions, don’t hesitate to reach out to our customer support team. They’re here to help you address any concerns you may have.”

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