

TMB Substrate



KEM

EN

TEC

Diagnostics

02/2012

TMB PLUS & TMB PLUS 2, Ready-to-use

Cat. No. 4390 & 4395

INTRODUCTION

The Kem-En-Tec Diagnostics **TMB PLUS/TMB PLUS2, Ready-to-use substrate** is a highly active and stable substrate with unique aqueous formulation. This gives maximized safety during use and minimized waste problems after use. The substrate gives higher signal than standard TMB solutions giving a very fast assay reaction.

TMB* produces a deep blue colour during the enzymatic degradation of H₂O₂ by horseradish peroxidase and gives a clear yellow colour after addition of stop solution.

* 3, 3', 5, 5'-tetramethylbenzidine

REAGENTS

Substrate buffer as well as **hydrogen peroxide** are included in this ready-to-use substrate.

No other reagents should be added.

Recommended stop solution is 0.18 M sulphuric acid.

THE WORKING PROCEDURE IS VERY SIMPLE

1. The desired amount of substrate is poured into a sealed container and allowed to reach room temperature in the dark.
2. Recommended volumes of 100 µl substrate solution per microtiter well is added. Time of development is typically 5-30 minutes. We recommend the plate to be kept in the dark during incubation i.e. wrapped in tinfoil.
3. The blue colour is read directly in kinetic assays at 650 nm. For endpoint assays equal volumes of 0.18 M sulphuric acid is added and the absorbance is read at 450 nm. The yellow solution is stable for up to one hour.
4. If reduced intensity is required it is recommended to shorten the time of development or to dilute the conjugate/antibody in the immunoassay further.

Dilution of the substrate is not recommended unless a special TMB Diluent is acquired from Kem-En-Tec Diagnostics.

Please be aware that a special Diluent is assigned each of our TMB Substrates.

RECOMMENDED HANDLING AND STORAGE

The TMB substrates are extremely sensitive to certain handling and storage conditions. Avoid exposure to light, heat and contamination with metal ions or peroxidase. Redispense only into bottles made of High Density Polyethylene (HDPE), amber colour, i.e. Nalgene 2004, and keep the substrate at 2-8°C in the dark. (Dispensing instruction sheet is available).

Kem-En-Tec Diagnostics A/S
CVR: 2580 6735

Kuldysen 10
DK-2630 Taastrup
Denmark

Tel.: (45) 3927 1771
Fax: (45) 3920 0178

E-mail: support@kem-en-tec.com
www.kem-en-tec.com

I:\Diagnostics\Marketing\Web\Instrman\PageMaker\TMB PLUS\TMB PLUS2 instrman05

Instruction Manual