

1-Step™ Slow TMB-ELISA

34024

0472.2

Number	Description
34024	1-Step Slow TMB-ELISA, 250mL

Storage: Upon receipt store product at 4°C. Product is shipped at ambient temperature.

Introduction

The Thermo Scientific 1-Step Slow TMB-ELISA contains soluble TMB (3,3',5,5'-tetramethylbenzidine) that is ideal for ELISA-based applications. TMB is a chromogenic substrate for horseradish peroxidase. Once oxidized by the enzyme, this substrate yields a blue product that absorbs at 370nm and 652nm. Adding sulfuric or phosphoric acid to stop the reaction changes the product to yellow that absorbs at 450nm and provides greater sensitivity than the blue product. The 1-Step Slow TMB-ELISA is supplied ready to use with no mixing required.

Procedure for using the 1-Step Slow TMB-ELISA

1. Equilibrate the TMB to room temperature. Add 100-150µL of the 1-Step Slow TMB-ELISA to each microplate well.
2. Incubate plate at room temperature for 5-30 minutes or until the desired color develops.
3. Stop reaction by adding 100-150µL of 2M sulfuric acid to each well.
4. Measure the absorbance of each well at 450nm.

Troubleshooting

Problem	Possible Cause	Solution
Some wells are blue while others are blue/green	Common TMB appearance	Reduce the HRP concentration, use a less sensitive substrate or reduce incubation time
A precipitate forms in the wells	The HRP concentration was too high	
High background	or incubation time was too long	

Related Thermo Scientific Products

15075	Reagent Reservoirs, 200/pkg
15082	Microtube Racked System, 960 tubes
15036	Sealing Tape for 96-Well Plates, 100/pkg
21124	Streptavidin, Horseradish Peroxidase Conjugated, 2mg
31002	NeutrAvidin® Protein, Horseradish Peroxidase Conjugated, 2mg
37538	StartingBlock™ (PBS) Blocking Buffer, 1L
37542	StartingBlock (TBS) Blocking Buffer, 1L

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