

Technical Data Sheet

TMB Substrate Reagent Set

Product Information

Material Number:	555214
Component:	51-2606KC
Description:	Substrate Reagent A
Size:	300 ml (1 ea)
Component:	51-2607KC
Description:	Substrate Reagent B
Size:	300 ml (1 ea)

Description

The TMB substrate reagent set is designed for use in BD OptEIA™ ELISA sets. Substrate Reagent A, which is clear and colorless, contains hydrogen peroxide. Substrate Reagent B is a colorless to a very light amber solution containing 3,3', 5,5' tetramethylbenzidine (TMB) in an organic solvent.

Store unopened reagents at 2-8°C. Do not use after the expiration date. Discard any remaining working solutions after use.

Reagents should be brought to room temperature (20-25°C) prior to use. Allow at least 30 minutes for this process.

Avoid prolonged exposure to light, contact with metal, air or extreme temperatures as color may develop.

Irritating to eyes and skin. Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

Application Notes

Recommended Assay Procedure:

Prepare a working concentration of TMB substrate solution within 15 minutes prior to use by mixing equal volumes of Substrate Reagent A and Substrate Reagent B (e.g. for one 96-well plate, a 12 mL TMB substrate working solution can be prepared by mixing 6 mL of Substrate A with 6 mL of Substrate Reagent B). When mixed together, TMB substrate solution should be colorless to a very faint blue. In the presence of peroxide-labeled conjugates, the solution should develop a definitive blue color. After the addition of sulfuric or phosphoric acid to stop the reaction, the color changes from blue to yellow.

Warnings and Precautions

Substrate Reagent B contains greater than 25% methanol and is considered a harmful solution. When using do not eat or drink. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin
R39/23/24/25	Toxic: Danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
S4	Keep away from living quarters
S7/9	Keep container tightly closed and in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately.
S60	This material and its container must be disposed of as hazardous waste.

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