

Technical Data Sheet

Reagent Set A

Product Information

Material Number:	550536
Component:	51-2606KZ
Description:	Substrate Reagent A
Size:	125 mL (1 ea)
Component:	51-2607KZ
Description:	Substrate Reagent B
Size:	125 mL (1 ea)
Component:	51-9003739
Description:	Wash Concentrate 20X
Size:	1 L (1 ea)
Component:	51-2608KZ
Description:	Stop Solution
Size:	125 mL (1 ea)
Component:	51-2641KC
Description:	Assay Diluent
Size:	1000 mL (1 ea)
Component:	51-2715KC
Description:	Coating Buffer
Size:	250 mL (1 ea)

Description

BD OptEIA™ Reagent Set A (Cat. No. 550536) is intended for use in BD OptEIA™ ELISA sets utilizing 0.2 M sodium phosphate coating buffer at pH 6.5. Reagents are provided to be sufficient for use in ELISA for 20 plates (96-well). Please refer to the BD OptEIA™ specific Technical Data Sheet and/or the Certificate of Analysis for determination of the correct coating buffer.

When using BD OptEIA™ ELISA sets utilizing 0.1 M sodium carbonate coating buffer at pH 9.5, investigators are encouraged to use BD OptEIA™ Reagent Set B (Cat. No. 550534).

Substrate Reagent A (51-2606KZ) contains hydrogen peroxide in a buffered solution (should be clear and colorless).

Substrate Reagent B (51-2607KZ) contains 3, 3', 5, 5' tetramethylbenzidine (TMB) in an organic solvent.

Substrate Reagent B should be colorless to a very light amber.

Wash Concentrate (20X) (51-9003739) contains concentrated detergent solution with ProClin®-150 as a preservative (should be clear and colorless). If the Wash Concentrate contains visible crystals or precipitate, warm to room temperature and mix gently until dissolved. Prepare a working concentration of wash buffer (1X) by diluting the required quantity of 20X Wash Concentrate with deionized or distilled water (e.g. to prepare 2.0 L of Wash Buffer, add 100 mL 20X Wash Concentrate to 1900 mL water). At least 500 mL Wash buffer (1X) should be prepared for one 96-well plate.

Stop Solution (51-2608KZ) contains 1M phosphoric acid (should be clear and colorless).

Assay Diluent (51-2641KC) contains animal serum in a buffered solution with ProClin®-150 as a preservative (should be clear and red in color). Assay Diluent is designed to be used for (a) the blocking of ELISA plates, (b) performing serial dilutions of the recombinant standard or the experimental sample, and/or (c) for the preparation of the Working Detector outlined in BD OptEIA™ protocols.

Coating Buffer (51-2715KC) contains 0.2 M sodium phosphate buffer, pH 6.5 (should be clear and colorless).

Preparation and Storage

Before use, bring all reagents to room temperature (18-25°C). Immediately after use, return to proper storage conditions.

Store all components at 2-8°C.

Do not use components past the expiration date. Discard any remaining working solutions after use.

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

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Application Notes

Application

ELISA

Routinely Tested

Recommended Assay Procedure:

TMB Preparation: 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 Reagent A with 6 mL of Substrate Reagent B). After mixing, the solution should be colorless to a very faint blue. In the presence of peroxidase-labeled conjugates, the solution should develop a definitive blue color. After the addition of Stop Solution, the color changes from blue to yellow.

Warning: Assay Diluent (component 51-2641KC) contains 0.003% (w/w) and Wash Concentrate (20X) (component 51-9003739) contains 0.002% (w/w) of a CMIT/MIT mixture (3:1), which is a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1).

Hazard statements

May cause an allergic skin reaction.

Precautionary statements

Wear protective gloves / eye protection.

Wear protective clothing.

Avoid breathing mist/vapours/spray.

If skin irritation or rash occurs: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Danger: Substrate Reagent B (component 51-2607KZ) contains 33.05% methanol (w/w).

Hazard statements

Flammable liquid and vapour.

Toxic if swallowed, in contact with skin or if inhaled.

Causes damage to the central nervous system. Route of exposure: Oral.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Wear protective gloves / eye protection.

Wear protective clothing.

Do not breathe mist/vapours/spray.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Danger: Stop Solution (component 51-2608KZ) contains 15.23% phosphoric acid (w/w).

Hazard statements

Causes severe skin burns and eye damage.

Precautionary statements

Wear protective gloves / eye protection.

Wear protective clothing.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Product Notices

1. ProClin is a trademark of Rohm and Haas Company.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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