

**Product number:**

DABM-0400-2C (4x100 mL + 1x15 mL)

DABM-1000-2C (1x30 mL + 1x1000 mL)

Custom Sizes Available

**Components:**

- 1) DAB Membrane Concentrate-Reagent A (DABC)
- 2) DAB Membrane Reaction Buffer-Reagent B (DABD)

**Product use:**

BioFX™ DAB Membrane Substrate is supplied as a two component liquid substrate system designed for the rapid and simple detection of peroxidase in membrane applications. DAB (3,3'-diaminobenzidine) is oxidized in the presence of peroxidase and hydrogen peroxide resulting in the deposition of a brown alcohol-insoluble precipitate at the site of enzymatic activity. Pat. [www.surmodics.com/patents](http://www.surmodics.com/patents)

**Product stability, storage and specifications:**

Product stability	3 years from the date of manufacture.
Storage	Store at 2-8°C in the original container away from light and heat with the lid tightly closed.
Specification	Following the combination of the two components, the resulting 1X solution is stable for 2-4 hours at 25°C and up to 8 hours at 2-8°C. During this period, the 1X solution may develop a darker color; however, the reagent performance will not be affected.

**Recommendations for use:**

- 1) Prepare DAB Membrane Substrate by adding 1 drop (~30 µL) of DAB Membrane Concentrate-Reagent A (DABC) and 1000 µL of DAB Membrane Reaction Buffer-Reagent B (DABD) to a tube.
  - Larger quantities can be prepared using the same 3:100 ratio.
- 2) Mix well.
- 3) Apply an ample amount of mixed substrate to completely cover the membrane and incubate for 5-15 minutes.
  - Monitor the development of the reaction to avoid overstaining.
- 4) Stop the reaction by gently rinsing the stained membrane in 2-3 changes of distilled water.
- 5) Allow membrane to dry for appropriate results.

**Additional considerations:**

The dilution of DAB Membrane Substrate is not recommended. It is recommended that the antibodies be diluted or the reaction time reduced to minimize the intensity of the reaction.

For technical assistance, email [ivdtechsupport@surmodics.com](mailto:ivdtechsupport@surmodics.com)

**Related products:**

<b>In-Solution Protein Stabilizers &amp; Diluents:</b>
StabilZyme™ HRP Conjugate Stabilizer (SZ02)
StabilZyme™ SELECT Stabilizer (SZ03)
StabilZyme™ NOBLE Stabilizer (SZ04)
StabilZyme™ Protein Free Stabilizer (SZPF)
Surmodics™ Assay Diluent (Protein-Free) (SM01)
MatrixGuard™ Diluent (SM02)
<b>Blockers/Stabilizers:</b>
StabilGuard™ Immunoassay Stabilizer-BSA-Free (SG01)
StabilCoat™ Immunoassay Stabilizer (SC01)
StabilBlock™ Immunoassay Stabilizer (ST01)
StabilBlot™ Protein-Free Blocker (SB01)
StabilBlot™ Milk Blocker – 10X (SB04)
StabilBlot™ Casein Blocker – 5X (SB05)
<b>Substrates:</b>
BioFX™ Chemiluminescent Ultra-Sensitive HRP Microwell Substrate (CHMI)
BioFX™ Chemiluminescent Sensitive Plus HRP Microwell and/or Membrane Substrate (LERI)
BioFX™ Chemiluminescent Super Sensitive HRP Microwell and/or Membrane Substrate (LUMI)
BioFX™ TMB Super Sensitive One Component HRP Microwell Substrate (TMBS)
BioFX™ TMB One Component HRP Microwell Substrate (TMBW)
BioFX™ TMB Conductivity One Component HRP Microwell Substrate (TMBC)
BioFX™ TMB Slow Kinetic One Component HRP Microwell Substrate (TMSK)
BioFX™ TMB Extended Range One Component HRP Microwell Substrate (TMBX)
BioFX™ TMB Enhanced HRP Membrane Substrate (ESPM)
BioFX™ TMB One Component HRP Membrane Substrate (TMBM)

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