

# Stable Peroxide Substrate Buffer (10X)

34062

0407.2

<b>Number</b>	<b>Description</b>
34062	<b>Stable Peroxide Substrate Buffer (10X), 100mL</b>

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

## Introduction

The Thermo Scientific Stable Peroxide Substrate Buffer is an ideal formulation for researchers who prefer to make their own horseradish peroxidase (HRP) substrates. The substrate is easily prepared by adding the chosen chromogen to a 1X solution of the Stable Peroxide Substrate Buffer. This buffer is provided at a 10X concentrate, which allows a shelf life of up to one year.

## Important Product Information

- A typical concentration of chromogen to use is 1mg/mL; however, specific applications may require a different concentration.
- A precipitate may form when some chromogens are added to the buffer. If a clear substrate solution is desired, filter the solution using a glass-fiber filter, as membrane filters may have affinity for the chromogen.
- Many chromogens, including OPD, ABTS, DAB and TMB dihydrochloride, are readily soluble and can be added directly to the 1X substrate buffer. Some chromogens (e.g., CN, DAB, TMB free base) require dissolving in organic solvents before adding to the 1X substrate buffer.

## Substrate Preparation using the Stable Peroxide Substrate Buffer

Add one volume of Stable Peroxide Substrate Buffer (10X) to nine volumes of ultrapure water. Add the chromogen to the 1X-substrate solution immediately before use. Alternatively, dissolve the chromogen in nine volumes of ultrapure water, and then add one volume of the 10X concentrate. Use the substrate immediately after preparation.

## Related Thermo Scientific Products

15075	<b>Reagent Reservoirs, 200/pkg</b>
15082	<b>Microtube Racked System, 960 tubes</b>
15036	<b>Sealing Tape for 96-Well Plates, 100/pkg</b>
21124	<b>Streptavidin, Horseradish Peroxidase Conjugated, 2mg</b>
31002	<b>NeutrAvidin<sup>®</sup>, Horseradish Peroxidase Conjugated, 2mg</b>
37538	<b>StartingBlock<sup>™</sup> (PBS) Blocking Buffer, 1L</b>
37542	<b>StartingBlock (TBS) Blocking Buffer, 1L</b>
31489	<b>EZ-Link<sup>®</sup> Plus Activated Peroxidase Kit</b>

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