Streptavidin-HRP Detection Solution

DESCRIPTION
Streptavidin-Horseradish Peroxidase Detection Solution (Streptavidin-HRP) contains streptavidin covalently linked to horseradish peroxidase. It is a component of TACS™ in situ Apoptosis Detection Kits that use TACS Blue Label™ (TBL) or diaminobenzidine (DAB) for the colorimetric detection.

APPLICATIONS
Use Streptavidin-HRP in colorimetric in situ apoptosis detection protocols. Streptavidin-HRP binds to biotinylated nucleotides incorporated into the fragmented DNA of apoptotic cells by TdT enzyme, for in situ detection. The peroxidase catalyzes the conversion of a soluble substrate into a colored, insoluble material that precipitates at the sites of DNA fragmentation. This material is tested and approved for use in TACS in situ Apoptosis Detection Kits that utilize DAB or TBL detection.

Streptavidin-HRP is suitable for use with TdT (TA4625 and TA4626), CardioTACS™ (TA5353), NeuroTACS™ (TA900), and TumorTACS™ (TA5411) in situ Apoptosis Detection Kits.

STORAGE
This product is stable when stored at 2 - 8° C. Do not freeze.

INSTRUCTIONS FOR USE
Exact reagent concentration and incubations must be determined empirically for different samples. Conditions described here are suggested starting points from which optimal reaction conditions can be determined.

♦ DAB Detection: For each sample, add 1 µL Streptavidin-HRP to 50 µL of 1X PBS. Store on ice until use.

♦ TBL Detection: Dilute the Streptavidin-HRP 1:500 in TBL-Streptavidin-HRP Diluent (4800-30-BL). For 1-10 samples, add 1 µL of Streptavidin-HRP to 500 µL Diluent. For CardioTACS, dilute Streptavidin-HRP 1:800.

Pipet 50 µL of the diluted Streptavidin-HRP onto each sample. Cover with a hydrophobic coverslip. Incubate at 18 - 24° C for 10 minutes. Immediately following incubation, proceed to the next step in the in situ apoptosis detection procedure. Refer to the instructions provided with each TACS in situ Apoptosis Detection Kit for complete details.

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