Streptavidin-FITC Detection Solution

Catalog Number: 4800-30-14

Size: 30 µL

Concentration: 1 mg/mL

Diluent: PBS with stabilizing proteins and 0.1% sodium azide

DESCRIPTION

Streptavidin-Fluorescein Detection Solution (streptavidin-FITC) contains streptavidin covalently linked to fluorescein isothiocyanate (FITC). It is a component of TACS™ *in situ* Apoptosis Detection Kits that utilize a fluorescein detection system.

APPLICATIONS

Use Streptavidin-FITC in any apoptosis detection method for which a fluorescent read-out is preferred. Streptavidin-FITC binds to biotinylated nucleotides incorporated into the fragmented DNA of apoptotic cells by TdT enzyme, for *in situ* detection. Streptavidin-FITC may also be used in conjunction with TACS Annexin V-Biotin kit to detect cell surface changes that occur early in the apoptotic process.

Streptavidin-FITC is suitable for use with TACS TdT (TA4627) in situ *Apoptosis Detection Kit-Fluorescein, FlowTACS™ (TA5354), and Annexin V-Biotin Apoptosis Detection Kit (TA4619).*

STORAGE

This product is stable when stored at 2 - 8° C protected from light. **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.

Fluorescein is excited at 490 nm and emits green-yellow light at 520 nm.

- ***in situ* detection -** Use a 1:200 dilution as a starting point. Refer to the instructions provided with each TACS *in situ* Apoptosis Detection Kit for complete details.
- **Annexin-V Biotin** - Use a 1:1,000 dilution in 1X Annexin V Binding Buffer. Resuspend cells in diluted Streptavidin-FITC and incubate at 18 - 24° C for 10 minutes. Wash cells and proceed with flow cytometry or fluorescence microscopy. Refer to the instructions provided with the TACS Annexin V-Biotin Apoptosis Detection Kit for complete details.

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