CellPore™ FITC-Dextran

Fluorescent tracer for visualizing and optimizing intracellular delivery efficiency with CellPore™ Transfection System

Catalog #100-1024 0.15 mL 2 mg/mL

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Product Description

CellPore™ FITC-Dextran is a green fluorescent tracer used to optimize and assess the efficiency of mechanoporation-based transfection using CellPore™ Transfection System (Catalog #100-0946). This marker is composed of dextran, a polysaccharide, labelled with fluorescent fluorescein isothiocyanate (FITC) dye. FITC-dextran is highly water-soluble, minimally toxic, and has low immunogenicity. During mechanoporation, cells become permeable to FITC-dextran and exhibit enhanced fluorescence compared to endocytosis alone.

CellPore™ FITC-Dextran can be used as a positive control to determine the optimal CellPore™ delivery pressure for the cell type and application of choice. This marker can also be used to measure transfection efficiency when co-delivered with other functional cargo. CellPore™ FITC-Dextran can be analyzed using flow cytometry, and is compatible with multi-color staining panels.

Excitation Wavelength:	488 nm
Emission Wavelength:	515 nm
Conjugate:	FITC (Fluorescein isothiocyanate)

Properties

Storage:	Store at 2 - 8°C for up to 3 months. For long-term storage, store at -20°C. Protect from light.
Shelf Life:	Stable until expiry date (EXP) on label.

Directions for Use

1. Thaw CellPore™ FITC-Dextran at room temperature (15 - 25°C). Vortex to mix. Briefly centrifuge the vial before opening to ensure the contents are at the bottom of the vial.

   NOTE: If not used immediately, store CellPore™ FITC-Dextran at 2 - 8°C for up to 3 months, or aliquot and store at -20°C. Protect from light. Frozen aliquots may be thawed up to 5 times without diminished performance. Do not exceed the expiry date as indicated on the label.
2. Prepare a single-cell suspension in CellPore™ Delivery Medium (e.g. Catalog #100-2379). For complete instructions, refer to the Product Information Sheet (Document #10000033730), available at stemcell.com, or contact us to request a copy.
3. Add 2.5 µL of CellPore™ FITC-Dextran per 50 µL of cell suspension (final concentration of 0.1 mg/mL), unless otherwise stated.
4. Transfer the cell-cargo suspension to a CellPore™ Delivery Cartridge and run the sample using CellPore™ Transfection System.

Related Products

For related products, including CellPore™ Transfection System, CellPore™ Delivery Cartridges, or CellPore™ Delivery Media, visit www.stemcell.com, or contact us at techsupport@stemcell.com.

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