CellPore™ Delivery Cartridges

For 12 mechanoporation reactions with CellPore™ Transfection System

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Product Description

CellPore™ Delivery Cartridges are designed specifically for use with the CellPore™ Transfection System (Catalog #100-0946). Each single-use sterilized cartridge comprises two parts: a cartridge insert, and a collection tube for easy post-mechanoporation handling. Each cartridge can accommodate sample volumes ranging from 20 - 200 µL.

CellPore™ Delivery Cartridges are offered in multiple sizes for compatibility to a broad variety of cell types. The numerical designation corresponds to the constriction size, with smaller numbers designed for mechanoporation of smaller cells and larger numbers for larger cell types. The total number of cells that can be processed per cartridge will vary based on the cell type.

For optimal performance, use CellPore™ Delivery Cartridges in combination with CellPore™ Delivery Media (e.g. Catalog #100-2379). CellPore™ Delivery Media are specifically formulated for optimal transfection efficiency and cell viability during mechanoporation.

Storage and Stability

Store at 15 - 25°C. Avoid direct exposure to light. Stable for 5 years from date of manufacture (MFG) on label.

Product Information

PRODUCT NAME	CATALOG #	COLOR	SIZE
CellPore™ Delivery Cartridges 300	100-0998	Grey	12 Cartridges per Bag
CellPore™ Delivery Cartridges 400	100-2174	White	12 Cartridges per Bag
CellPore™ Delivery Cartridges 500	100-2175	Red	12 Cartridges per Bag
CellPore™ Delivery Cartridges 600	100-2171	Blue	12 Cartridges per Bag
CellPore™ Delivery Cartridges 700	100-2173	Orange	12 Cartridges per Bag

Directions for Use

To determine which cartridge model is best suited for your cell type or application, refer to the CellPore™ Mechanoporation Guide available at www.cellpore.com.

1. Prepare a cell/cargo suspension in a recommended volume of 50 µL and transfer to a new CellPore™ Delivery Cartridge. Always insert the pipette tip to the bottom of the cartridge insert when dispensing the sample. Optionally, pre-load the collection tube with 150 µL of an appropriate cell culture medium to benefit downstream performance for some applications.

   NOTE: Each CellPore™ Delivery Cartridge can accommodate a reaction volume (cells + cargo) between 20 µL and 200 µL; performance may be more variable at the minimum 20 µL volume and should be validated for the cell type of interest. It is recommended to first pre-load the collection tube before transferring the reaction volume into the cartridge insert.
2. Close the top lid and ensure the cartridge insert is securely placed in the collection tube.

   NOTE: Do not centrifuge the cartridge at this stage as this will lead to a loss in delivery performance. Gently tap the cartridge several times to collect volume at the bottom if necessary.
3. Place the cartridge into the Cartridge Holder of the CellPore™ Transfection System. Run the sample at the appropriate delivery pressure.
4. Retrieve the cartridge from the instrument once completed. The cell sample should be at the bottom or side of the collection tube.

   NOTE: It is recommended to spin down the cartridge in a mini centrifuge for a few seconds for full volume recovery before discarding the insert. For complete instructions on performing sample runs, refer to the Technical Manual for CellPore™ Transfection System (Document #10000018433), available at stemcell.com, or contact us to receive a copy.
5. Remove and discard the cartridge insert. The cells are ready for downstream use.

   NOTE: In some applications, a resting period at 37°C and 5% CO_2 can benefit downstream performance.

Related Products

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

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