R&D SYSTEMS
a bio-techne brand

MagCellect™ Magnet

Catalog Number: MAG997

INTENDED USE

This magnet is designed for use with R&D Systems' MagCellect Cell Selection Products.

PRODUCT DESCRIPTION

The MagCellect Magnet is designed to effectively work with all MagCellect Cell Selection Kits and Reagents. The magnet can accommodate six 12 x 75 mm (5 mL) or two 17 x 100 mm (15 mL) round bottom tubes. The magnet is designed to be used with magnetic nanoparticles ≥ 100 nm in diameter for both positive and negative cell selection applications.

MATERIALS PROVIDED & STORAGE CONDITIONS

PART	PART #	DESCRIPTION	MAGNET STORAGE
MagCellect Magnet	600270	1 Rare Earth Magnet	Store the magnet at room temperature on a non-metallic surface. **DO NOT FREEZE OR EXPOSE TO ELEVATED TEMPERATURES.**

PRECAUTIONS

People with cardiac pacemakers should not handle this magnet.

The MagCellect Magnet is a strong permanent magnet that, when in close proximity, can affect the performance of sensitive instruments. These devices include electronic and magnetic recording instruments, video monitors, computer discs, credit cards, calculators, and watches. The magnet should not be placed on steel surfaces or near objects containing steel or iron due to its strong attraction to ferric metals. For disinfection purposes, the magnet may be wiped with alcohol or a 10% bleach solution. Do not boil, autoclave, or expose the magnet to UV light.

GUIDELINES FOR USE OF THE MAGCELLECT MAGNET

Detailed instructions on how to use the MagCellect Magnet with R&D Systems' MagCellect Cell Selection Kits can be found on each product data sheet and on our website (www.RnDSystems.com).

- The dimensions of the magnetic surface of the MagCellect Magnet restrict the reaction volume in the tubes placed in the magnet. Do not exceed a total reaction volume of 3 mL with the 5 mL tubes or 10 mL with the 15 mL tubes.
- Magnetic separation is achieved by placing the samples in the MagCellect Magnet for a minimum of 6 minutes (for the 5 mL tubes) or for 8 minutes (for the 15 mL tubes).
- To ensure complete removal of the magnetic nanoparticles, at least two rounds of magnetic separation should be performed.
- For **negative cell selection**, the undesired cells are retained on the walls of the tubes while the cells of interest remain in suspension. The desired cells are recovered by carefully harvesting the cell suspension by aspiration.
- For **positive cell selection**, the cells of interest are retained on the walls of the tubes while the undesired cells remain in suspension. After carefully aspirating the cells in suspension, the tube can be removed from the magnet to collect the desired cells.

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