

**Magnetic Separator 96 SBS**

**Magnetic Separator 384 SBS**

Order# PR-MAGMS05

Order# PR-MAGMS06



**Mo Bi Tec**  
MOLECULAR BIOTECHNOLOGY



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**Caution - strong magnetic field. Before working with the magnets, take appropriate safety measures. Keep the magnets away from ferrous materials and magnetic media like computers, videotapes, credit cards, etc.**

## Intended Use

MoBiTec's Magnetic Separators SBS are intended for magnetic separation of M-Beads from liquid samples for isolation and purification of nucleic acids and proteins, immunoprecipitation, immunoassays (ELISA), cell sorting, and purification of biomolecules. Magnetic Separators are designed for optimal magnetic bead separation in terms of speed and bead pellet positioning, as well as stability and user-friendliness.

- SBS: Dimensional standards for the standard 96 well microplate, according to the Society for Biomolecular Screening (SBS)

## Product Description

MoBiTec offers magnetic separators for automated use with 96- and 384-well microplates on liquid handling workstations. The neodymium (NdFeB, NIB, or Neo) magnets used for the separators are the strongest permanent magnets made. MoBiTec Separators SBS are suitable for automation of M-Beads applications on liquid handling workstations, from various companies (i.e., PerkinElmer, Beckman-Coulter, Hamilton, Tecan, Xiril, Eppendorf). MoBiTec Separators SBS are compatible with all 96- and 384-pipette heads available in the market.

MoBiTec Separators SBS consist of a base made of black anodized aluminium and a red anodized aluminium block with magnet rods.

The black base has a SBS microplate footprint that allows it to fit into SBS plate holders and robotic decks. It also has an SBS top pocket that holds SBS dimensioned labware in perfect position. The Separators SBS enable optimal placement of PCR plates, regardless of the plate brand, and are also suitable for use with most U- or V-shaped, and flat bottom microplates.

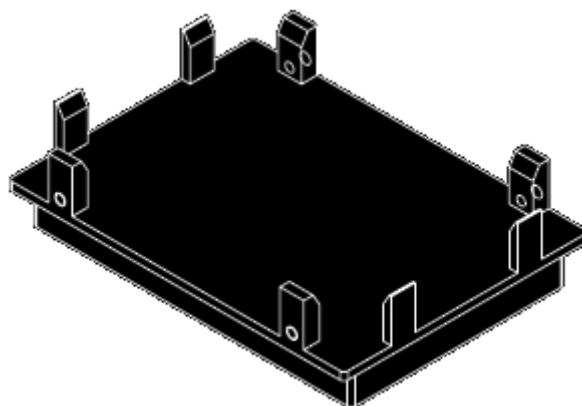


Figure 1: SBS dimensioned base for MoBiTec Separator 96 SBS and 384 SBS  
Dimensions: 9.82 cm x 13.46 cm x 3.42 cm. Weight  $\pm$  0.2 kg



The red anodized aluminium block (not shown in Figure 1) enables optimal placement of PCR plates, regardless of the plate brand, and are also suitable for use with most U- or V-shaped, and flat bottom microplates. MoBiTec Separators SBS include a cut-in for easy and safe plate transfer using a gripper tool.

MoBiTec Separators SBS have been optimized for optimal handling properties and minimal processing time. Magnets are positioned as close to the wells as possible, reducing collection times of magnetic beads. M-Beads typically collect within 1-3 minutes (depending on the application). After collection magnetic beads form a tight pellet at about half the well-height, enabling fast and efficient aspiration of liquids without risk of carry over (or loss) of beads. For efficient removal of supernatants, the aspiration height should be set to 0.1 mm above the defined well-bottom.

MoBiTec Separators SBS are optimally suited for use with M-Beads NextGen Clean-Up and DNA Clean-Up kits.

Order#	Product	Quantity
PR-MAG00051-01	M-Beads NextGen Clean-Up Kit	5 ml
PR-MAG00051-02	M-Beads NextGen Clean-Up Kit	75 ml
PR-MAG00050-01	M-Beads DNA Clean-Up Kit	400/800 purifications
PR-MAG00050-02	M-Beads DNA Clean-Up Kit	5,000/10,000 purifications

For detailed information on the above kits see [www.mobitec.com](http://www.mobitec.com).



## Magnetic Separator 96 SBS (PR-MAGMS05)

This magnetic separator is especially designed for automated use with 96-well PCR microplates. This magnetic separator is ideal for medium-throughput processes using 96-well PCR plates. It consists of an SBS dimensioned base that fits on any robotic deck and a red anodized aluminium block that holds 6x4 magnets (48 MGO). Each magnet enables beads to be pulled to the side of 4 wells for optimal access to the bottom of the wells and easy supernatant removal with 8-channel pipetting tools or 96-channel pipette heads.

The product is suitable for most 96-well PCR plates, both semi- and full-skirted as well as non-skirted, and for most U- and V-bottom shaped 96-well microplates.

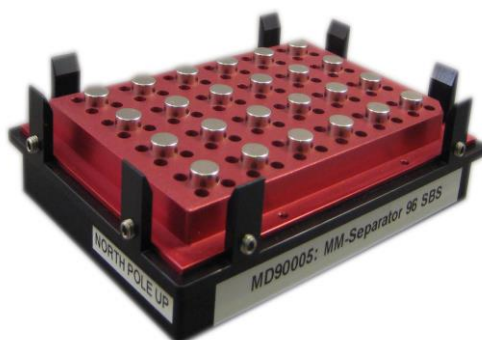


Figure 2: MoBiTec Magnetic 96 SBS

Dimensions: 9.82 cm x 13.46 cm x 3.42 cm. Weight:  $\pm 0.4$  kg

## Magnetic Separator 384 SBS (PR-MAGMS06)

This magnetic separator is designed for automated use with 384-well PCR microplates, especially suited for high-throughput processes. It consists of an SBS dimensioned base, fitting on any robotic deck, and a red anodized aluminium block that holds 12x8 magnets (52 MGO). Each magnet enables beads to be pulled to the side of 4 wells for optimal access to the bottom of the wells and easy supernatant removal with 96- or 384-channel pipette heads.

The product is suitable for most 384-well PCR plates, both semi- and full-skirted as well as non-skirted, and for most 384-well microplates.



Figure 3: Magnetic Separator 384 SBS

Dimensions: 9.82 cm x 13.46 cm x 3.42 cm. Weight:  $\pm 0.4$  kg



## Order Information, Shipping and Storage

Order#	Product	Quantity
PR-MAGMS05	Magnetic Separator 96 SBS	1 each
PR-MAGMS06	Magnetic Separator 384 SBS	1 each
shipped at RT; store at RT		

### Storage and stability

MM-separators should be cleaned with mild detergents. Contact with harsh chemicals or organic solvents may damage the surface. Store at room temperature in dry environment. Do not heat the magnets above 80 °C, as this will result in loss of magnetic properties!

### Related Products

Order#	Product	Quantity
PR-MAGMS01	Magnetic Separator M12+12 for the isolation of M-Beads Magnetic silica beads in 12 x 1.5 ml and 12 x 2 ml tubes	1 each
PR-MAGMS02	Magnetic Separator M96 for the isolation of M-Beads Magnetic silica beads in microtiter plate format (96 wells)	1 each
PR-MAGMS03	Magnetic Separator for PCR Strips	1 each

### Contact and Support

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