

Dynal MPC™-96B

Dynal MPC™-96S

Dynal MPC™-384

Magnetic Particle Concentrator (MPC) for microtitre-plates (96-wells or 384-wells)

For laboratory use only



1. PRODUCT DESCRIPTION

1.1 Principle

The Dynal MPC-96B, MPC-96S and MPC-384 magnets are used to separate superparamagnetic, uniform Dynabeads[®] from the sample content of a microtitre plate. The term superparamagnetic means that the Dynabeads are magnetic only in a magnetic field and lose all residual magnetism when the magnetic field is removed.

When the plate is placed on the magnet, Dynabeads are attracted to the side or bottom of the microtitre well, depending on the type of magnet (see section 1.2). This enables easy removal of supernatant, while the separated Dynabeads are retained in the well.

1.2 Intended Use

Dynal MPC-96B (Cat. no. 120.26)

- Holds 96-well skirted PCR-plates. The magnet collects the beads at the bottom of the wells.
- Working volume range from 5 µl to 200 µl.

Dynal MPC-96S (Cat. no. 120.27)

- Holds 96-well skirted PCR-plates. Bar magnets collect the bead pellets at the side of the wells.
- Working volume range from 5 µl to 200 µl.

Dynal MPC-384 (Cat. no. 120.28D)

- Holds 384-well skirted PCR-plates. The magnet collects the beads at the bottom of the wells.
- Working volume ≤ 30 µl.

2. GENERAL INFORMATION

Invitrogen Dynal AS complies with the Quality System Standards ISO 9001:2000 and ISO 13485:2003.

2.1 Precautions

These products contain very strong permanent magnets.

People wearing a pacemaker or any other medical magnetizable implant should not use this product unless advised by a health professional; the implant could be affected or damaged by exposure to a strong magnetic field.

Keep magnetizable tools and objects out of the working area. This includes, but is not restricted to, credit cards and other products containing magnetic recording devices. Keep away from delicate instruments, watches, electronic equipment, displays and monitors. The magnet may attract steel or other magnetic material with high mechanical forces. Take care during handling.

The Health and Safety Officer should take all necessary steps and full responsibility to ensure that the precautions and statements are followed and adhered to. IN NO EVENT SHALL INVITROGEN DYNAL BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

2.2 Disinfection

The following materials have been tested for cleaning purposes. Spray and/or wipe the Dynal MPC unit with one of the following cleaning agents:

- 70% isopropyl alcohol
- 1% sodium hypochlorite solution (Bleach)
- 0.1 N HCl solution

Other disinfectants have not been tested and may not be suitable. Do not submerge in aqueous solutions and avoid prolonged exposure to water or aqueous solutions.

Clean with a damp cloth and mild detergent when exposed to harsh solvents. Do not autoclave the Dynal MPC magnets.

2.3 Storage and Stability

Your Dynal MPC magnet contains high energy Neodymium permanent magnets. Magnetic strength will not diminish significantly during the lifetime of the product.

Do not use the magnets above 50°C (122°F) and store in a cool, dry environment.

Avoid prolonged exposure of the magnets to direct sunlight or artificial UV light as the surface material may become brittle.

2.4 Warning and Limitations

This product is for research use only. Not intended for any animal or human therapeutic or diagnostic use unless otherwise stated.

This product guarantees optimum isolation of Dynabeads, not the isolation of a specific material. Recovery of biomolecules by magnetic isolation depends on the avidity of the antibodies or ligands on the surface of Dynabeads, as well as factors concerning the biomolecules themselves and the matrix from which they are to be isolated.

Material Safety Data Sheet (MSDS) is available at <http://www.invitrogen.com>.

2.5 Trademarks and Patents

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2.8 Warranty

The products are warranted to the original purchaser only to conform to the quantity and contents stated on the vial and outer labels for the duration of the stated shelf life. Invitrogen Dynal's obligation and the purchaser's exclusive remedy under this warranty is limited either to replacement, at Invitrogen Dynal's expense, of any products which shall be defective in manufacture, and which shall be returned to Invitrogen Dynal, transportation prepaid, or at Invitrogen Dynal's option, refund of the purchase price.

Claims for merchandise damaged in transit must be submitted to the carrier.

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