

96-Well MPS®

96-Well Magnetic Particle Separator (MPS®)

Product No.: MPS0096

The 96-Well Magnetic Particle Separator (MPS®) is manufactured from ultra high molecular weight polyethylene and contains 24 Neodymium-Iron-Boron magnets. The 96-Well Magnetic Particle Separator plays a significant role in our MPG® magnetic particle technology. The 96-Well Magnetic Particle Separator is a rapid means to effect the separation desired. Using our 96-Well Magnetic Particle Separator the MPG® particles with the target material attached are drawn to the well wall adjacent to the magnet within moments of placing the micro plate in the separator. This separator holds one micro plate and works best with U-shaped wells. The 96-Well Magnetic Particle Separator is convenient to use for high throughput applications. The unique design of this separator makes it easy to handle manually and allows access to the long sides of the plate for automated robotic manipulation.

Minimum Magnetic Properties Neodymium-Iron-Boron Magnets

Br (Residual Induction)	12,000 Gauss
Hc (Coercive Force)	11,200 Oersteds
Hci (Intrinsic Coercivity)	14,000 Oersteds
(BH) max (Maximum Energy Product)	34,000 MGOe

Warning: The product should not be kept in close contact with magnetic tapes, computer disks, any magnetic storage systems, or other delicate electronic instruments and/or devices that might be interfered with or damaged by a strong magnetic field.

Note: The 96-Well Magnetic Particle Separator is not autoclavable and heating should be avoided. Use mild soap or 70% ethanol for cleaning or disinfect ion.

Instructions for Use:

Follow the procedure or protocol for the MPG® product you are using. When scaling protocols, we recommend using a minimum of 50 µg particles per well and a minimum volume of 10 µl per well. When Magnetic Separation, Resuspension or Washing is specified, use the 96-Well Magnetic Particle Separator as follows:

Separation

1. Best results are obtained using our round bottom 96-Well Micro plate (Product No.: MP-96-100). Place the micro plate in the magnetic separator so that any notched corner does not contact the pin in the orientation corner of the separator.
2. Separation time is volume dependent and takes 0.5 to 2.5 minutes for 10 to 350 µl of magnetic particles, respectively.

Resuspension

1. Remove the micro plate from the 96-Well Magnetic Particle Separator.
2. Add the appropriate solution along the wall of the wells to resuspend the particles.
3. For volumes of less than 50 µl gently tap the side of the microplate to fully resuspend the particles. For volumes greater than 50 µl pipette the liquid up and down in the wells to accomplish full resuspension.

Washing

1. Conduct the separation procedure as described above.
2. Once separation is complete, the 96-well plate should be kept in position over the magnetic separator and the supernatant should be removed slowly with a pipette. The pipette should be positioned as far away from the magnetic particles as possible to avoid disturbing the particles. Vacuum aspiration is not recommended.
3. Conduct the resuspension procedure as described above.
4. Repeat this process for the indicated number of cycles according to the protocol you are following.