

MCB 1200

Biomagnetic Bead Processing Platform

For Biomagnetic Separations in Molecular and Cell Biology



With Improved Magnet Design!

- > Genomic DNA from blood, tissue and cells
- > "No Shear" mixing isolates large DNA fragments and intact cells

What is the MCB 1200 Platform?

Our MixSep™ system is a patented mixing and separating system which can be scaled, automated or adapted to your robotic workstations and meet your isolation and purification needs in molecular and cell biology. MixSep combines mixing and separating in a single compact mechanism. The rotating magnetic field suspends and mixes magnetic beads without agitating the test medium. Magnetic mixing solves the problem of shear and provides high collision frequency to improve your rate of affinity capture.

The Advantages

Based on MixSep technology, our MCB 1200 is the first instrument to offer this type of processing system for biomagnetic purification. It provides academic and industry researchers with a simple and cost-effective method for the rapid and reproducible isolation of nucleic acids, proteins and cells. With MCB 1200, you can simultaneously process up to 12 separate microcentrifuge tubes (1.5 mL) with the sample volumes in the range of 50 to 1000 µL.

Applications

- > Genomic DNA, M13 ssDNA, mRNA.
- > Sequence specific DNA/RNA binding proteins.
- > Small-scale isolation of cells and bacteria.
- > Cleaning and washing of magnetic beads/particles.
- > Conjugation of antibodies or probes to magnetic beads/particles.

MCB 1200 Biomagnetic Bead Processing Platform

Technology leadership: innovative solutions for biomagnetic bead processing.

You can isolate genomic DNA from whole blood, mRNA or sequence specific proteins from complex samples. The absence of shear means that you can now isolate very large fragments of genomic DNA. A simple title mechanism removes the acting magnetic field to allow downstream sample processing. Simple closed operation prevents the sample from spilling into the cap and eliminates possible biohazard risks.

Benefits

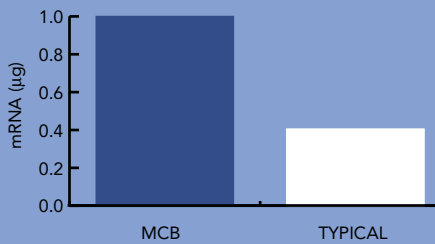
- > Simple to use and easy adaptation to established protocols.
- > No additional mixing equipment or centrifuge required.
- > Negligible Shear-superior product purity and yield.
- > Reduction up to 40% of required magnetic beads.
- > Controlled mixing rates for reproducible results.

Bead and protocol compatibility

We have specially designed the MCB 1200 to process up to 12 samples at a time and to be used with most commercially available magnetic bead kits, allowing easy integration with your current manual protocols in molecular and cellular biology. The instrument may be safely used inside cold rooms or sterile hoods.

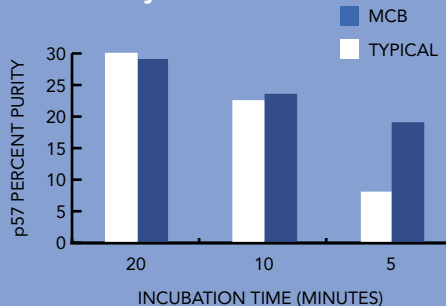
Unsurpassed mixing and separation efficiency maximizes yield, purity and reproducibility.

Higher Yield



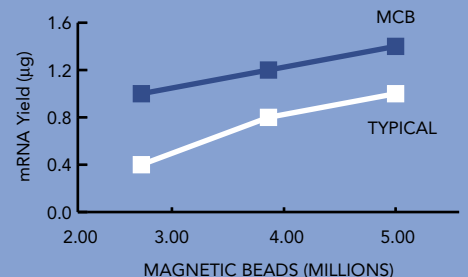
Isolation of mRNA using 2.5×10^6 Oligo (dT_{20}) magnetic beads.

Better Purity



An in vitro translated p57 protein (radiolabeled ^{35}S -Met) immunoprecipitated with a monoclonal antibody bound to antimouse IgG conjugated magnetic beads at ambient temperature. Percent purity is report as the level of p57 relative to nonspecific protein, determined by densitometry of the proteins separated in 10% SDS-PAGE.

Reduced Cost

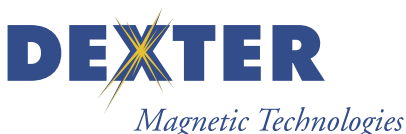


Effect of magnetic bead concentration on mRNA yield using Oligo (dT_{20}) magnetic beads.

Data courtesy of Sigris Research

This unit intended for research purposes only.

The MCB 1200 unit is being marketed in Europe by bioMérieux as the miniMag™. Please call them at +33 04 78 87 20 00 for quotes and further product information.



PERMAG®

North America | 800-345-4082

Europe | +(44) (0)1189-602430

info@dextermag.com

www.dextermag.com/lifeseq.aspx