

Magnetic Bead Separation Blocks For Multi-well Plates

Providing The Strongest, Fastest, Highest Bead Recovery On The Market

We supply a diverse range of blocks and racks for the separation of magnetic beads from solution. Our products can be applied to all types of multiwell plates, from 96 & 384-well PCR, to deep (4, 8, 24, 48, 96, 384 & 1536) well. Our unique designs together with use of the strongest available magnets (Neodymium Iron Boron) ensure the fastest separation times possible whilst minimizing bead loss, regardless of samples volume. Our separation products, which conform to SLAS standards, can be used in both robotic liquid handlers and manual applications.

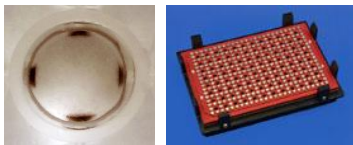
Various unique designs to suit all types of multiwell plate

Robotic Applications

Our magnetic bead separation blocks for multiwell plates promote many different separation patterns that fit any application (see below). Whether you require to pull your beads to the bottom, corners, sides or just one side of your wells, we have the blocks to suit your needs. Using high strength rare earth magnets with MGOs of varying intensity, our blocks will pull the magnetic beads as far to the edge of your wells as possible so they will not interfere with aspiration, no matter what type of plate you are using. Our magnetic bead separation blocks also include a registration device which ensures your plates rest correctly on the block magnets every time. The SLAS footprint used makes them compatible with all robotic workstations on the market today.

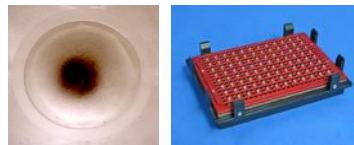
Examples of achievable bead separation patterns

VP 771HA Series (329 Post Magnets)



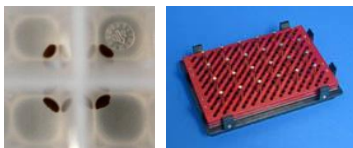
- Suitable for 96 well standard microplates with flat bottom wells
- 329 round post magnets, 9 per well, 52 MGO
- Pulls magnetic beads to sides of well at the bottom

VP 771JA Series (96 Post Magnets)



- Suitable for 96 well standard microplates with flat, round or V-bottom wells
- 96 round post magnets, 1 per well, 52 MGO
- Pulls magnetic beads to center of well at the bottom

VP 771E-2 Series (24 Post Magnets)



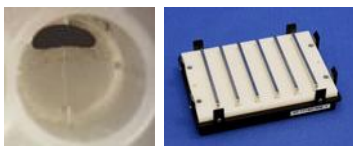
- Suitable for 96 well standard microplates open underneath with round-bottom wells
- 96 round post magnets, 4 wells around each
- Pulls magnetic beads to side of well & off bottom

VP 771MDW Series (13 Bar Magnets)



- Suitable for 96 well microplates, standard and deep well
- 13 bar magnets, 50 MGO
- Pulls beads to side of well, off bottom

VP 771MCW Series (6/7 Bar Magnets)



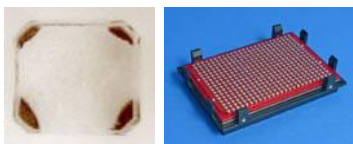
- Suitable for 96 well microplates, standard and deep well
- 6 bar magnets, 50 MGO
- Pulls beads to side of well, off of bottom

VP 771MA Series (4/5 Bar Magnets)



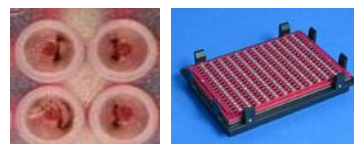
- Suitable for large well microplates: 6 well reservoirs; 24 & 48 well plates with rectangular, pyramid-bottom wells
- 4 bar magnets, 50 MGO
- Pulls beads to side of well, off of bottom

VP 771G-4A Series (425 Post Magnets)



- Suitable for 384 well microplates, standard and deep well
- 425 post magnets, 52 MGO, 4 magnets for each well
- Pulls magnetic beads to the side of well at bottom

VP 771IA Series (204 Post Magnets)



- Suitable for 384 well microplates, PCR, standard and deep well
- 204 post magnets, 52 MGO, alternating columns
- Pulls magnetic beads to the bottom on opposite sides of alternating column of wells

Magnetic Bead Separation In 96-Well PCR Plates

We provide the largest selection of magnetic Bead Separation Blocks for 96-well PCR plates of all kinds. Simply choose the right block for the type of plate and reaction/elution volume being used. Whether you're working with 10 μ l or 200 μ l of solution, we have the block that will suit your application. By altering the positioning of magnets we can modify the position of the bead pellet so that losses due to aspiration and drying problems are kept to a minimum.

Our blocks can also be used with aspiration and dispensing systems to facilitate assay processing. The image opposite demonstrates how our blocks fit into one of our aspiration systems. The wells of a 96-well plate are designed to line up perfectly with the aspiration tubes, aligning them with the middle of the wells. The processing of plates in magnetic bead assays become quite straight forward when using our magnetic separation, aspiration and dispensing systems.



...Introducing the VP 771L Series

Block Series	Plate Type	No. Of Magnets & Strength	Liquid Volume	Bead Pellet Position In Well
VP 771LA	96 well PCR microplate	24 post, 42 or 52 MGO magnets	200 μ l	
VP 771LB-3B	96 well PCR microplate	24 post 52 MGO magnets	100 μ l	
VP 771LC-3C	96 well PCR microplates with half-skirt or no skirt	24 post 52 MGO magnets	30 μ l	
VP 771LD-4C	PCR microplates with full, half or no skirt	24 post 52 MGO magnets	10 μ l	
VP 771LE-4A	96 well PCR microplate	24 post 42 MGO magnets	75 μ l	
VP 771LE-4B	96 well PCR microplate	24 post 52 MGO magnets	50 μ l	
VP 771LE-4C	96 well PCR microplate	24 post 52 MGO magnets	30 μ l	
VP 771LFW	96 well PCR microplate	24 post 52 MGO magnets	15 μ l	

Manual Pipetting Applications

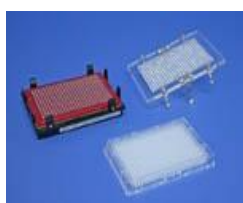


Our Magnetic Bead Separation Blocks are designed so that the strong rare earth magnets used in our Blocks hold the beads in an optimal position on one side of the tube while pipetting, thereby reducing the risk of bead loss.

Pipette Tip Guide - VP 771Z-384

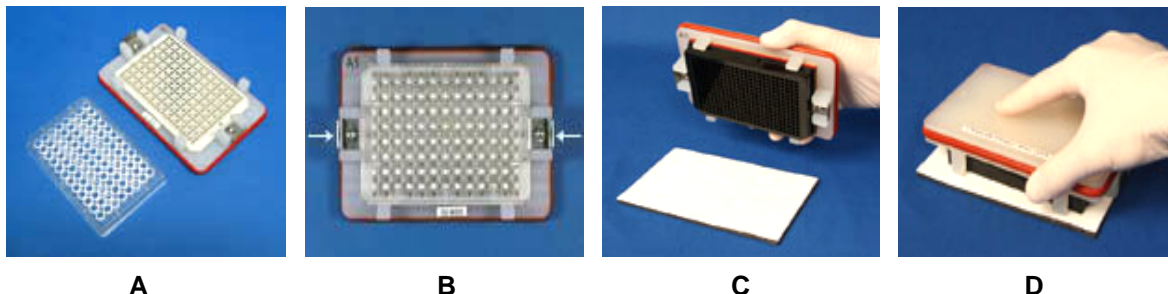
The Pipette Tip Guide is designed for when a multi-channel pipette is used to process a magnetic bead assay in a 384 well plate. This adjustable Tip Guide allows the distance that the pipette tips go into the well to be raised or lowered. This controls the tip as it enters the well so that the bead pellet is not disturbed.

The guide's four "feet" rest on the Magnetic Separation Block's registration base and the guide plate can be raised and lowered by adjusting the "leg" height (see below).



Flick & Blot Magnetic Bead Separator – *The First And Only One of Its Kind!*

VP 771HH series Hand-Held Magnetic Bead Separators for rapid manual bead washing. Our unique **FLICK & BLOT™** blocks allow you to remove all liquid from the wells of a multiwell plate in under 10 seconds with minimal bead loss and without the need for an expensive robotic liquid handles or plate washer. Hand-Held blocks are available for all kinds of multiwell plates, including deep well plates, PCR plates and even racks of tubes (see separate flyer). After adding your wash buffer, simply discard the liquid using a single flick of the wrist (down the sink if appropriate) and then tap the block onto our super absorbent Lint-Free blotting paper to remove the last drops of liquid. These Hand-Held blocks, apart from being more economical, are a convenient substitute for a robotic liquid handler in busy labs where bench space is limited.



VP 771HH series Handheld Magnetic Separation Blocks consist of 3 parts:

- **A & B:** base with a silicone rubber ring to provide a secure grip when flicking the liquid from microplate
- **B & C:** Registration guides that locate both the Magnet Frame and the microplate to the base
- **C & D:** An adjustable clip system that securely holds the microplate to Magnetic Separation Block

Registration Bases for Magnetic Bead Separation Blocks

Ensure that:

- Microplates are positioned properly relative to magnets in the Magnetic Separation Block
- Blocks can be properly positioned for use with:
 - Automated liquid handling workstations
 - V&P plate manifolds for manual aspirating and dispensing
- The highly magnetic blocks are held in a safe manner

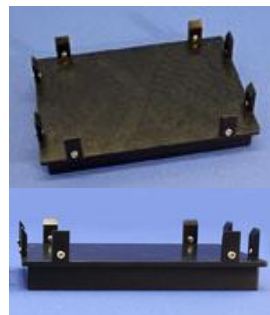
Manual & Robotic Registration Bases



Robotic

VP 771G-4R

- SBS footprint
- Pocket on top holds SBS sized Magnetic Bead Separation Blocks
- Black anodized aluminium
- Low profile
- Robot applications



Robotic or Manual

VP 771G-4RM-1

- SBS footprint
- Pocket on top holds SBS sized Magnetic Bead Separation Blocks
- Black anodized aluminium
- High profile
- Robot, manual aspiration and dispensing applications
- Reduced outer dimensions for multiple units to fit close together

Features And Advantages Of Our Magnetic Bead Separation Blocks

- **Widest selection of Magnetic Bead Separation Blocks for all types of microplates**
- **Strongest available magnets for fastest separation time, with minimal bead loss**
- **Designs available for small volumes to save precious reagents**
- **Compatible with Robotic and Benchtop applications**
- **World's first and only hand-held FLICK & BLOT™ Magnetic Separation Block**
- **Accessories also available to save time and increase efficiency**

For Further Information On Magnetic Bead Separation Blocks, Please Contact Us At: