

ALPAQUA[®] MAGNUM FLX[®] Enhanced Universal Magnet Plate

This Technical Data Sheet provides product information for the ALPAQUA[®] MAGNUM FLX[®] Enhanced Universal Magnet Plate, product number A000400.



Precautions

This magnet plate contains extremely strong neodymium magnets. Individuals with pacemakers or implantable cardioverter-defibrillators (ICD) should avoid contact with this product. Studies have shown the potential for interference between strong neodymium magnets and these medical devices

(<http://www.ncbi.nlm.nih.gov/pubmed/17198980>, full text: <http://cdn4.vol.at/2007/03/Magnet-Studie.pdf>).



Pinch Hazard. Never allow the magnets to come into contact with other magnetic plates, magnets, or metal objects. The resulting strong and rapid attraction may cause personal injury.

Product Description

The ALPAQUA[®] MAGNUM FLX[®] Enhanced Universal Magnet Plate is designed for rapid and efficient magnetic particle separations from a wide range of sample volumes, viscosities, and labware types. The MAGNUM FLX[®] plate is designed for the separation of magnetic particle from liquid columns up to 40 mm in height and can be used for elution volumes as low as 10ul*. The unique universal adapter brackets ensure compatibility with virtually all commonly used 96 well microplates including Flat-Bottom, Round-Bottom, V-Bottom, Deep-Well, and PCR plates (full, semi, or non-skirted). The SBS footprint and elevated base of the Magnum FLX plate also ensures compatibility with virtually all automated liquid handling decks, including those with deep plate nests up to 20 mm in depth.

*Some microplate types may require larger elution volumes. To achieve efficient recoveries the magnetic bead ring must be completely covered by elution buffer.

Product Applications and Use

The ALPAQUA[®] MAGNUM FLX[®] Enhanced Universal Magnet Plate is compatible with all molecular biology, cell biology, proteomics or other workflows requiring highly efficient and rapid separation of magnetic particles from solutions in a 96 well SBS compliant footprint.

Do not use microplates that become warped after heating (i.e. thermocycling). The use of warped microplates may result in magnetic particle carryover or loss of magnetic particles.

Product Maintenance

Cleaning

Cleaning of the ALPAQUA[®] MAGNUM FLX[®] Enhanced Universal Magnet Plate before and after each use is recommended to ensure that the plate is clear of any residual solutions or buffers that may contain salts or other corrosive agents. Buildup of these agents may over time result in damage to the plate components and interfere with proper seating of labware onto the magnets. Small amounts of surface debris can be cleaned by lightly wiping with 70% ethanol and drying with a towel or, if available, compressed air can be used to remove liquid from the magnets and springs. If larger salt deposits are found within the ring magnets a Q-tip dampened with ethanol may be used to gently remove bound material. *Always* thoroughly dry all surfaces including the spring cushion mechanism after cleaning.

Decontamination

If Alpaqua magnet plates are used in protocols where biohazard contamination has occurred, special care must be taken during decontamination steps to avoid damage to both the magnets and the carrier plate. Cleaning solvents specifically designed for medical devices, such as CIDEX (<http://www.aspij.com/emea/emea/products/manual-solutions/cidex>) or other ortho-Phthalaldehyde based solutions, are the ONLY biohazard decontamination solutions to be used on Alpaqua products. Follow the manufacturer's instructions for product dilution and application time and rinsing. Following biohazard decontamination, a standard 70% ethanol cleaning (above) is required.

Important Note: DO NOT decontaminate or disinfect the magnetic plate with any solution containing bleach or any type of organic oxidizer. Doing so will severely damage the magnets and carrier pieces resulting in irreparable damage and possible device failure. Treatment of Alpaqua magnet plates with non-recommended disinfectants will void all warranties.

Warranty / Liability

For research use only. Not for use in diagnostic procedures.

Alpaqua Engineering, LLC is committed to delivering superior product quality and performance. Warranty information for the accompanying product is available at <http://www.alpaqua.com/How-to-Order/Terms-Conditions> in "8. LIMITED WARRANTY". Please contact Alpaqua if you have any questions about our warranties or would like information about post-warranty support. The information in this document is subject to change without notice.

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*This product is protected under US Patent 6,755,384. Addl. Pat. pending.

MAGNUM FLX™
Enhanced Universal Magnet Plate
A000400

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