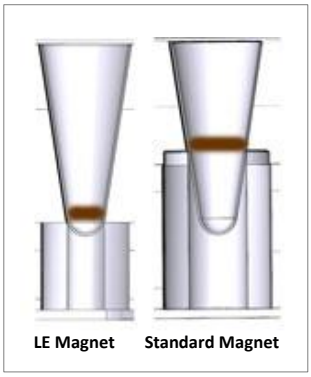
LE Magnet Plate

Catalog # (P/N): A000350

Precautions: This magnet plate contains 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 NdFeB magnets and these medical devices (http://www.ncbi.nlm.nih.gov/pubmed/17198980). Do not allow the unit to come in contact with metal objects or other magnets. Damage will occur to magnetized media, such as diskettes or credit cards, near the plate. Damage may also occur to computers and CRT-based monitors near the magnets. Small magnets pose a swallowing hazard. Keep away from children. This is not a toy. Do not disassemble.

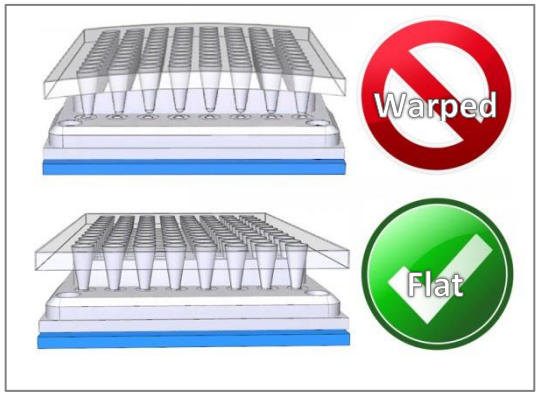
USER INFORMATION

Product Description and Intended Use: The ALPAQUA® LE Magnet Plate is designed for fast and efficient magnetic bead separations using low elution volumes in 96-well PCR plates.



For Precision Automated Liquid Handling, not for Manual Pipetting: The LE Magnet Plate is intended for use with automated liquid handling equipment, and use with manual pipettors is not recommended. In order to remove liquid without disturbing the ring of magnetic beads, every pipette tip must be positioned exactly in the center of a confined bead-free area at the bottom of each well. While using a manual single-channel pipettor is possible, using a manual 8- or 12-channel pipettor is not. The LE Magnet Plate performs best in conjunction with an advanced liquid handling instrument equipped with a multi-channel dispense head, such as the Beckman Biomek® or the Eppendorf epMotion® platform. As a general rule, if your robot can safely work with 384 well PCR plates, it will probably work well with the LE Magnet Plate.The ring magnets used in the LE Magnet Plate have a smaller diameter hole than those used in standard magnet plates (*e.g.,* 96R Ring or 96S Super Magnets). As a result, PCR wells don't sink as deeply into the LE magnets, with the advantage that the ring of beads forms lower in the well (see figure). This means that less elution volume is required (approximately 8-10 µl) to fully cover the beads and elute the product. With its SBS footprint, it fits into standard liquid handler plate nests, plate hotels, and stackers, etc. Grooves on the long sides provide space for robotic arms or grippers when moving microplates on and off the magnet plates. 96 strong ring magnets cause paramagnetic beads to aggregate in a circle around the perimeter of the well bottom, leaving room in the center of the wells for pipet tips to aspirate sample supernatant, wash fluids, or eluates.

Only Use Flat PCR Plates: It is very important to only use flat PCR plates with the LE Magnet Plate. All wells must touch the LE magnets so the ring of magnetic beads will form at the correct position in the wells. Do not use warped PCR plates because if the wells do not touch the LE magnets, the magnetic beads will cluster at the bottom and cause bead carry-over in those wells.The LE Magnet Plate works with most 96-well PCR plates – skirted, semi-skirted, or non-skirted, however the PCR plate must be straight, i.e. not warped, and all wells must touch the magnet. The use of PCR plates with rigid frames is recommended.
Visit http://www.alpaqua.com/Products/MagnetPlates/LEMagnetPlate.aspx for more information.



Cleaning**:** If solutions are spilled onto the LE Magnet Plate, rinse the unit with water and gently tap on a towel or similar to remove water from the magnets and springs. Allow to air dry completely.

Alpaqua Magnet Plates feature patented* Plate Cushion technology, facilitating supernatant removal and wash steps.

OTHER INFORMATION

Warranty and Liability: For research use only. Not for use in diagnostic procedures.
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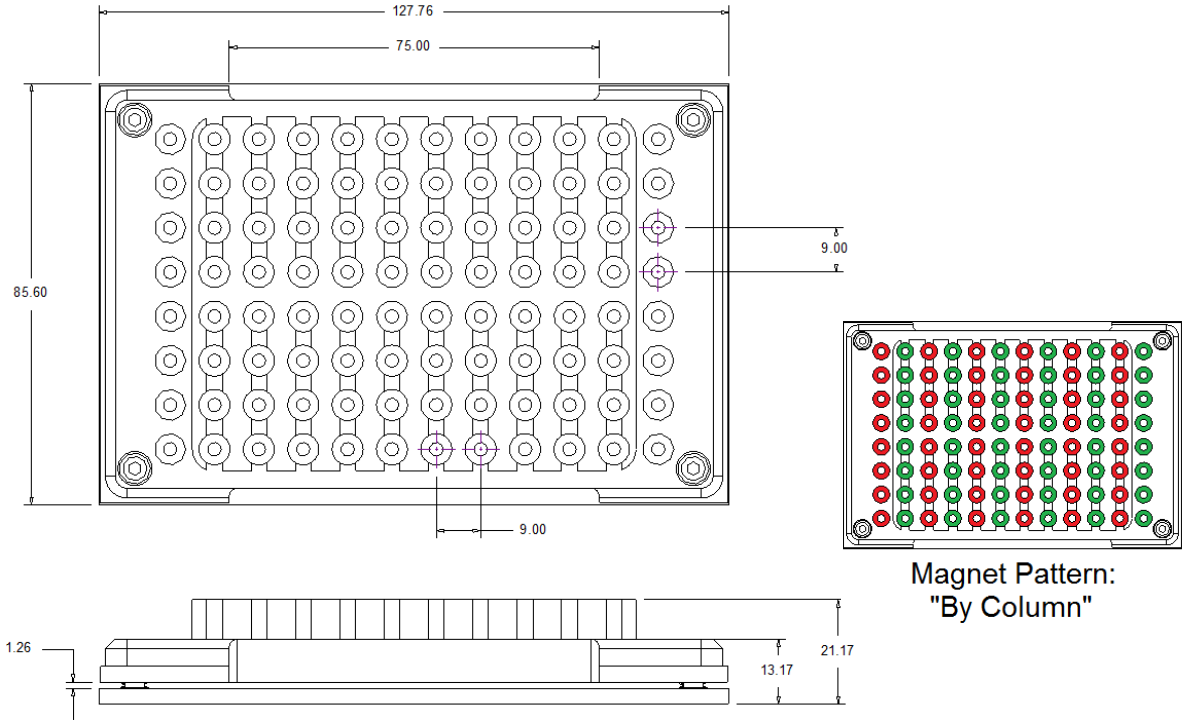
*This product is protected under US Patent 6,755,384.

SPECIFICATIONS



(Dimensions in mm)