

NucleoMag® SEP

Dear valued customer,

Thank you for choosing MACHEREY-NAGEL for your application.

This product is for research use only.

Important information regarding product components, specifications, safety instructions, and processing protocols, can all be found on the product website and accessed easily via the QR code.

[QR-Code product website](#)



[qr.mn-net.com/qr/\(241\)744900](https://qr.mn-net.com/qr/(241)744900)



Contents

Product	REF	Pack of
NucleoMag® SEP Magnetic Separator	744900	1

Product description

The NucleoMag® SEP Magnetic Separator is designed for the rapid manual purification of nucleic acids using the NucleoMag® kits. The NucleoMag® kits are based on MACHEREY-NAGEL's magnetic bead technology and allow rapid simultaneous purification of high-quality nucleic acids.

The NucleoMag® SEP can also be used on common liquid handling instruments, allowing a complete automation of the NucleoMag® kits in combination with a gripper tool. The NucleoMag® SEP consists of a PTFE base and magnetic pins.

Safety and care

Caution: The NucleoMag® SEP contains strong permanent magnets. Handle the magnetic separator with care and do not attempt to disassemble the NucleoMag® SEP. Avoid direct contact with the magnet material and keep loose ferrous material away.

Never allow magnets near a person with a pacemaker or similar medical aid. The strong magnetic fields of the magnet can affect the operation of such devices. Magnets should never be burned.

Avoid contact of the magnetic separator with magnetic-sensitive devices or media such as (but not limited to) watches, credit cards, tapes and sensitive electronic devices away from the separator unit.

Maintain distance between two or more magnetic separators.

Care: Do not autoclave. If necessary, clean the NucleoMag® SEP by rinsing it with water or 70 % ethanol or by wiping off dirt and liquids with a towel. NucleoMag® SEP is resistant to diluted acetic acid, ethanol, guanidine-HCl, NaCl, NaOH, and SDS.

However, prolonged exposure of the separator to these chemicals should be avoided

Use of NucleoMag® SEP

Recommended separation plates

For optimal performance of the NucleoMag® SEP together with the NucleoMag® kits the following separation plates are recommended:

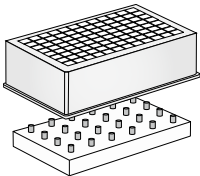
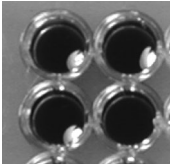
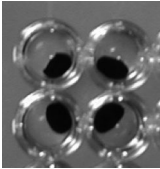
Elution Plate U-bottom: REF 740486.24

Square-well Block: REF 740481 / .24

For more information refer to the appropriate kit protocol.

Separation of beads

During the washing and elution steps of the NucleoMag[®] procedure, the NucleoMag[®] Beads are freely dispersed in solution. Mixing of beads and buffer occurs by pipetting up and down or by shaking. To separate the beads from the solution, the separation plate is transferred onto the NucleoMag[®] SEP. The NucleoMag[®] Beads are attracted to the magnet, while the wash buffer can be removed from the well or the elution buffer containing the purified DNA can be recovered, respectively.

	During washing / elution step	At the end of washing / elution step
Position of separation plate	Beads are mixed with buffer by pipetting up and down or by shaking. On work bench / robot deck or placed on shaker	Beads are attracted to the magnet so the wash buffer can be removed or the elution buffer with DNA can be recovered. Beads are held back in the well. Transferred to NucleoMag [®] SEP 
NucleoMag [®] Beads	Freely dispersed in solution 	Attracted to magnet 

Attraction of the magnetic beads to the magnetic pins depends on the magnetic strength of the magnetic pins, the selected separation plate, distance of the separation plate from the magnetic pins, and the volume to be processed. The individual times for complete attraction of the beads to the magnetic pins should be checked on each system. It is recommended to use the separation plates or tubes specified in the appropriate kit protocol.

Appendix

Ordering information

Product	REF	Pack of
NucleoMag® SEP (Magnetic separator for use with 96-well plates)	744900	1
Square-well Block	740481	4
	740481.24	24
Elution Plate U-bottom	740486.24	24
Related products	REF	Pack of
NucleoMag® SEP Mini (Magnetic separator for use with up to 12 × 1.5 mL or 2 mL reaction tubes)	744901	1
NucleoMag® SEP Maxi (Magnetic separator for use with up to 4 × 50 mL tubes)	744902	1
NucleoMag® SEP 24 (Magnetic separator for use with 24-well plates)	744903	1

Safety instructions

When working with this product, wear suitable protective clothing (e.g., lab coat, disposable gloves, and protective goggles).

QR-Code Safety Data Sheet

Please find a digital version of the safety data sheet by following the link below:



www.mn-net.com/sds

Product use restriction / warranty

All MACHEREY-NAGEL products are designed for their intended use only. They are not intended to be used for any other purpose. The description of the intended use of the products can be found in the original MACHEREY-NAGEL product leaflets. Before using our products, please observe the instructions for use and the safety instructions from the respective Material Safety Data Sheet of the product.

This MACHEREY-NAGEL product is carrying documentation stating specifications and other technical information. MACHEREY-NAGEL warrants to meet the stated specifications. The provided warranty is limited to the data specifications and descriptions as given in the original MACHEREY-NAGEL literature. No other statements or representations, written or oral, by MACHEREY-NAGEL's employees, agents or representatives, except written statements signed by a duly authorized officer of MACHEREY-NAGEL are authorized. They should not be relied upon by the customer and are not a part of a contract of sale or of this warranty.

Liability for all possible damages that occur in any connection with our products is limited to the utmost minimum as stated in the general business terms and conditions of MACHEREY-NAGEL in their latest edition which can be taken from the company's website. MACHEREY-NAGEL does not assume any further warranty.

Products and their application are subject to change. Therefore, please contact our Technical Service Team for the latest information on MACHEREY-NAGEL products. You may also contact your local distributor for general scientific information. Descriptions in

MACHEREY-NAGEL literature are provided for informational purposes only.

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