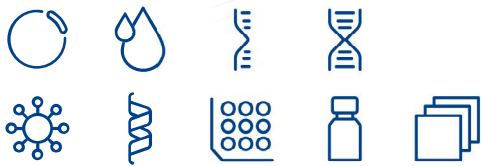


MACHEREY-NAGEL

User manual



Magnetic Separator

- NucleoMag® SEP

October 2020 / Rev. 04

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1 Contents

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REF	744900
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2 Product description

The NucleoMag® SEP Magnetic Separator is designed for the rapid manual purification of nucleic acids using the NucleoMag® 96 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.

3 Use of NucleoMag® SEP

3.1 Safety

Magnetic field. 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. Persons with pacemakers/implants should avoid direct contact.

Avoid contact of the NucleoMag SEP® 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.

3.2 Recommended separation plates

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


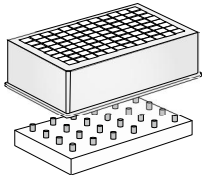
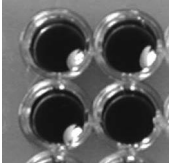
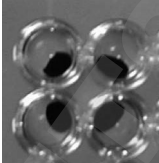
Elution Plate U-bottom: REF 740486.24

Square-well Block: REF 740481/.24

For more information refer to the appropriate kit protocol.

3.3 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
	Beads are mixed with buffer by pipetting up and down or by shaking.	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.
Position of separation plate	On work bench/robot deck or placed on shaker 	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.

3.4 NucleoMag® SEP care

The NucleoMag® SEP consists of a PTFE base and magnetic pins. Do not autoclave. If necessary, clean the NucleoMag® SEP by rinsing it with water or by wiping off dirt and liquids with a towel. NucleoMag® SEP is resistant to diluted acetic acid, ethanol, guanidine-HCl, NaCl, NaOH, SDS. However, prolonged exposure of the separator to these chemicals should be avoided.

4 Appendix

4.1 Ordering information

Product	REF	Pack of
NucleoMag® SEP (Magnetic separator for use with 96-well plates)	744900	1
Square-well Block	740481 740481.24	4 24
Elution Plate U-bottom	740486.24	24

Related products	REF	Pack of
NucleoMag® SEP Mini (Magnetic separator for use with up to 12 x 1.5 mL or 2 mL reaction tubes)	744901	1
NucleoMag® SEP Maxi (Magnetic separator for use with up to 4 x 50 mL tubes)	744902	1
NucleoMag® SEP 24 (Magnetic separator for use with 24-well plates)	744903	1

4.2 Product use restriction / warranty

NucleoMag® SEP is intended, developed, designed, and sold FOR RESEARCH PURPOSES ONLY, except, however, any other function of the product being expressly described in original MACHEREY-NAGEL product leaflets.

MACHEREY-NAGEL products are intended for GENERAL LABORATORY USE ONLY! MACHEREY-NAGEL products are suited for QUALIFIED PERSONNEL ONLY! MACHEREY-NAGEL products shall in any event only be used wearing adequate PROTECTIVE CLOTHING. For detailed information please refer to the respective Material Safety Data Sheet of the product! MACHEREY-NAGEL products shall exclusively be used in an ADEQUATE TEST ENVIRONMENT. MACHEREY-NAGEL does not assume any responsibility for damages due to improper application of our products in other fields of application. Application on the human body is STRICTLY FORBIDDEN. The respective user is liable for any and all damages resulting from such application.

DNA/RNA/PROTEIN purification products of MACHEREY-NAGEL are suitable for *IN-VITRO*-USES ONLY!

ONLY MACHEREY-NAGEL products specially labeled as IVD are also suitable for *IN-VITRO*-diagnostic use. Please pay attention to the package of the product. *IN-VITRO*-diagnostic products are expressly marked as IVD on the packaging.

IF THERE IS NO IVD SIGN, THE PRODUCT SHALL NOT BE SUITABLE FOR *IN-VITRO*-DIAGNOSTIC USE!

ALL OTHER PRODUCTS NOT LABELED AS IVD ARE NOT SUITED FOR ANY CLINICAL USE (INCLUDING, BUT NOT LIMITED TO DIAGNOSTIC, THERAPEUTIC AND/OR PROGNOSTIC USE).

No claim or representations is intended for its use to identify any specific organism or for clinical use (included, but not limited to diagnostic, prognostic, therapeutic, or blood banking). It is rather in the responsibility of the user or - in any case of resale of the products - in the responsibility of the reseller to inspect and assure the use of the DNA/RNA/protein purification products of MACHEREY-NAGEL for a well-defined and specific application.

MACHEREY-NAGEL shall only be responsible for the product specifications and the performance range of MN products according to the specifications of in-house quality control, product documentation and marketing material.

This MACHEREY-NAGEL product is shipped with documentation stating specifications and other technical information. MACHEREY-NAGEL warrants to meet the stated specifications. MACHEREY-NAGEL's sole obligation and the customer's sole remedy is limited to replacement of products free of charge in the event products fail to perform as warranted. Supplementary reference is made to the general business terms and conditions of MACHEREY-NAGEL, which are printed on the price list. Please contact us if you wish to get an extra copy.

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MACHEREY-NAGEL laboratories using MACHEREY-NAGEL products. MACHEREY-NAGEL does not warrant the correctness of any of those applications.

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