

NucleoMag® SEP

1 Contents

NucleoMag® SEP	
REF	744900
NucleoMag® SEP Magnetic Separator	1

2 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.

3 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 peacemaker 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

4 Use of NucleoMag SEP.

4.1 Recommended separation plates

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

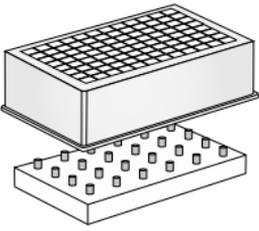
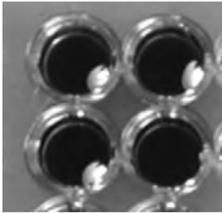
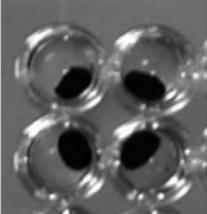
Elution Plate U-bottom: REF 740486.24

Square-well Block: REF 740481/.24

For more information refer to the appropriate kit protocol.

4.2 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.

5 Appendix

5.1 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

6 Product use restriction / warranty

NucleoMag® SEP Mini 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.

All goods have to be checked immediately upon receipt. Damage claims are only acceptable in writing within 8 working days of receipt of all the goods. In case of legitimate claims the buyer can only require replacement of the goods. If replacement is not possible, the buyer has the right to choose between alternative products with same value or refund. The buyer cannot claim further compensation. All returns must first be authorized by us in writing. We offer a one year warranty from date of delivery that our products will conform to applicable specifications set forth in the product specifications if not sold to persons set forth in § 13 of German Civil Code. In such a case, the provisions of the German Civil Code shall be valid. This warranty does not cover defects in or damage to the products which are due to improper installation or maintenance, misuse, neglect or any use other than ordinary commercial application. Any discharge from liability will be void if a defect results from a heavily negligent or intentional breach of contract or if the buyer will be bodily injured as a result from a negligent or intentional breach. The seller shall not be liable for the goods being fit for a particular purpose unless otherwise agreed upon, to which the buyer intends to put them.

This warranty is strictly exclusive. Any further damage compensation is impossible.

MACHEREY-NAGEL MAKES no other warranty of any kind whatsoever, and SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES OF ANY KIND OR NATURE WHATSOEVER; DIRECTLY OR INDIRECTLY; EXPRESS OR IMPLIED; INCLUDING; WITHOUT LIMITATION; AS TO THE SUITABILITY; REPRODUCIBILITY; DURABILITY; FITNESS FOR A PARTICULAR PURPOSE OR USE; MERCHANTABILITY; CONDITION; OR ANY OTHER MATTER WITH RESPECT TO MACHEREY-NAGEL PRODUCTS OR THE SALE OF MACHEREY-NAGEL PRODUCTS.

If not superseded by these terms the current terms and conditions for the sale of goods (export version) are additionally valid.