

NucleoMag® Desalting Beads

1. Contents

Product	REF
NucleoMag® Desalting Beads For desalting of NucleoBond® eluates, NucleoMag® Desalting Beads (4 × 1.5 mL) and Buffer TRIS (60 mL); for use in conjunction with anion exchange plasmid purification kits	744410.50

2. Product description

NucleoMag® Desalting Beads are designed for quick concentration and desalination of plasmid DNA eluates that are obtained by anion-exchange chromatographic plasmid purification kits. Plasmid DNA is bound reversibly to NucleoMag® Desalting Beads by addition of isopropanol followed by an ethanolic wash step. Remaining ethanol is removed by a drying step and pure plasmid DNA is eluted with low salt Buffer TRIS for further use. The NucleoMag® Desalting Beads can be used as an alternative to common desalting or precipitation methods in a manual or automated manner.

3. Storage conditions

The product can be stored at room temperature (18–25 °C) and is stable for at least one year.

4. Safety instructions

NucleoMag® Desalting Beads do not contain hazardous material. For more information consult the appropriate Material Safety Data Sheets (MSDS available online at www.mn-net.com/sds).

5. Kit specifications

Parameter	
Typical binding capacity	Approx. 400–500 µg per 100 µL NucleoMag® Desalting Beads
Elution volume	200–2000 µL (depending on plasmid DNA concentration and amount)
Typical recovery	≥ 90 %
To be combined with	NucleoBond® Xtra Midi and Maxi kits NucleoBond® PC kits other anion exchange plasmid purification kits

6. Protocol

Step	Procedure for 5 mL NucleoBond® Xtra Midi eluate
Bind	5 mL NucleoBond® Xtra Midi eluate. 100 µL NucleoMag® Desalting Beads. 3.5 mL isopropanol. Mix and incubate for at least 2 min.
Separate	Separate the magnetics beads for at least 5 min, until all beads have been attracted to the magnet. Remove and discard supernatant carefully by pipetting.
Wash	Remove the tube from the magnet. Add 2 mL 70 % EtOH. Mix and incubate for 1 min.
Separate	Separate the magnetics beads for at least 2 min, until all beads have been attracted to the magnet. Remove and discard supernatant carefully by pipetting.
Dry	Dry the magnetic beads for at least 10–15 min. Remove residual liquid by pipetting.
Elute	200–1000 µL Buffer TRIS. Mix and incubate for at least 2 min at room temperature. Separate the magnetic beads until all beads have been attracted to the magnet. Transfer the eluates carefully to a suitable tube.

Volume for desalting	Parameters for other eluate volumes
1 mL (e.g. NucleoBond® Xtra Midi eluate)	Binding step 20 µL NucleoMag® Desalting Beads 0.75 mL isopropanol Washing step 500 µL 70 % EtOH
5 mL (e.g. NucleoBond® Xtra Midi eluate)	Binding step 100 µL NucleoMag® Desalting Beads 3.5 mL isopropanol Washing step 2 mL 70 % EtOH
15 mL (e.g. NucleoBond® Xtra Maxi eluate)	Binding step 200 µL NucleoMag® Desalting Beads 3.5 mL isopropanol Washing step 4 mL 70 % EtOH
25 mL (e.g. NucleoBond® PC 2000 eluate)	Binding step 330 µL NucleoMag® Desalting Beads 8.75 mL isopropanol Washing step 5 mL 70 % EtOH
100 mL (e.g. NucleoBond® PC 10000 eluate)	Binding step 1330 µL NucleoMag® Desalting Beads 35 mL isopropanol Washing step 20 mL 70 % EtOH

7. Product use restrictions / warranty

NucleoMag® Desalting Beads are developed, designed, and sold for research purposes only. 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. 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. 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.

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