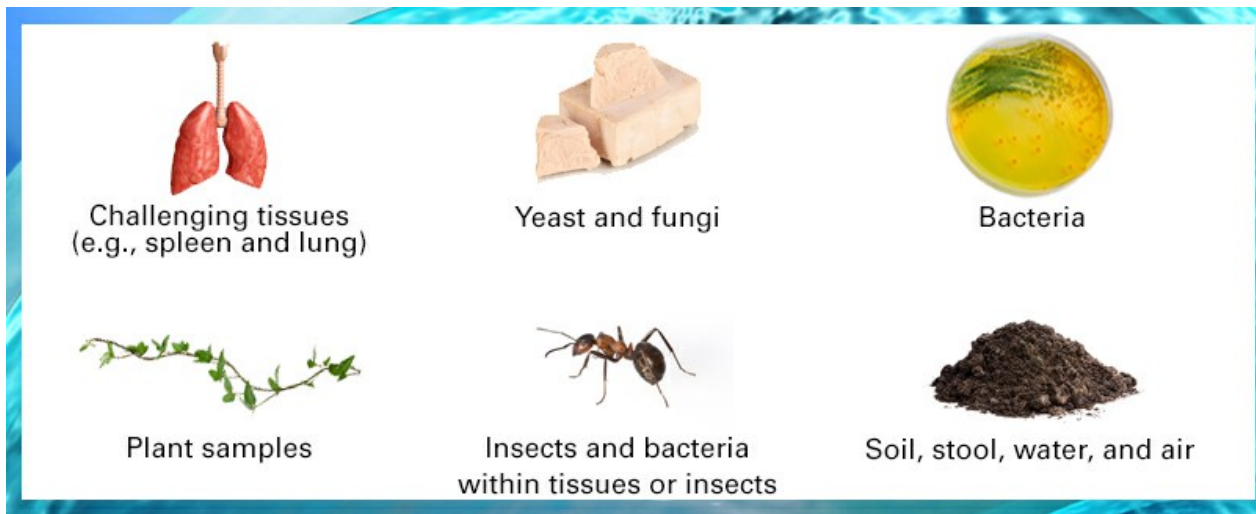


Guide to bead beating: choose the right one for your hard-to-lyse sample

- Bead beating is an essential step for mechanical homogenization of difficult sample materials.
- We provide nucleic acid purification kits that include homogenization beads to effectively lyse different kinds of tissues.
- The homogenization beads are available separately in single-tube (2 or 5 ml), plates (96 or 12 x 8 strips), or bulk format.
- The MN Bead Tube Holder can be used with Vortex-Genie 2 to homogenize challenging samples simply and effectively.



Bead tubes



	Bead tube	Cat. #	Bead description	Recommended for	Relevant kits	In conjunction with
	MN Bead Tubes Type A, MN Bead Tubes Type B 5 mL	740786.50, 740799.50	0.6–0.8 mm ceramic beads	Soil, sediments, stool	NucleoSpin Soil, NucleoSpin DNA Stool, NucleoBond RNA Soil, NucleoSpin RNA Stool (included), NucleoMag DNA/RNA Water	MN Bead Tube Holder or MN Bead Tube Holder 5 mL on a Vortex-Genie 2 or with a mixer mill (e.g., Retsch)
	MN Bead Tubes Type B	740812.50	40–400 µm glass beads	Bacteria	NucleoSpin Microbial DNA (included)	MN Bead Tube Holder on a Vortex-Genie 2 or with a mixer mill (e.g., Retsch)
	MN Bead Tubes Type C	740813.50	1–3 mm corundum	Yeast, fungi	NucleoSpin Microbial DNA (optional)	MN Bead Tube Holder on a Vortex-Genie 2 or with a mixer mill (e.g., Retsch)
	MN Bead Tubes Type D	740814.50	3 mm steel beads	Insects, crustaceans, lipid-rich tissues	NucleoSpin DNA Insect, NucleoSpin DNA Lipid Tissue (included)	MN Bead Tube Holder on a Vortex-Genie 2 or with a mixer mill (e.g., Retsch)
	MN Bead Tubes Type E	740815.50	40–400 µm glass beads + 3 mm steel beads	Bacteria within tissues/insects	NucleoSpin DNA Insect, NucleoSpin DNA Lipid Tissue (optional)	MN Bead Tube Holder on a Vortex-Genie 2 or with a mixer mill (e.g., Retsch)
	MN Bead Tubes Type F	740816.50	1–3 mm corundum + 3 mm steel beads	Challenging tissues (e.g. spleen and lung tissues)	NucleoSpin DNA RapidLyse (optional)	MN Bead Tube Holder on a Vortex-Genie 2
	MN Bead Tubes Type G	740817.50	5 mm steel beads	Plant material	NucleoSpin RNA Plant and Fungi (optional)	With a mixer mill (e.g., Retsch)

High-throughput plates



	Bead plate	Cat. #	Bead description	Recommended for	Relevant kits
	MN 96 Bead Plate Type B	740851.4, 740851.24	40–400 µm glass beads	Bacteria	NucleoSpin Microbial DNA (included) , NucleoMag DNA Bacteria
	MN 96 Bead Plate Type D	740853.4, 740853.24	3 mm steel beads	Insects, crustaceans, lipid-rich tissues	NucleoSpin DNA Insect , NucleoSpin DNA Lipid Tissue (included)

Bulk beads



	Bulk beads	Cat. #	Recommended for	Relevant kits	In conjunction with
	Type A Ceramic Beads, 0.6–0.8 mm (Bulk)	740786.B.250	Soil, sediments, stool	NucleoSpin Soil, NucleoSpin DNA Stool, NucleoBond RNA Soil, NucleoSpin RNA Stool (included), NucleoMag DNA/RNA Water	MN Bead Tube Holder or MN Bead Tube Holder 5 mL on a Vortex-Genie 2 or with a mixer mill (e.g., Retsch)
	Type B1 Glass Beads, 40–70 µm (Bulk)	740809.B.5000	Bacteria	NucleoSpin Microbial DNA (included)	MN Bead Tube Holder on a Vortex-Genie 2 or with a mixer mill (e.g., Retsch)
	Type B2 Glass Beads, 0.3–0.4 mm (Bulk)	740812.B.1000	Bacteria	NucleoSpin Microbial DNA (included)	MN Bead Tube Holder on a Vortex-Genie 2 or with a mixer mill (e.g., Retsch)
	Type C Corundum Beads, 1 mm (Bulk)	740813.B.250	Yeast, fungi	NucleoSpin Microbial DNA (optional)	MN Bead Tube Holder on a Vortex-Genie 2 or with a mixer mill (e.g., Retsch)
	Type D Steel Beads, 3 mm (Bulk)	740814.B.1000	Insects, crustaceans, lipid-rich tissues	NucleoSpin DNA Insect, NucleoSpin DNA Lipid Tissue (included)	MN Bead Tube Holder on a Vortex-Genie 2 or with a mixer mill (e.g., Retsch)
	Type G Steel Beads, 5 mm (Bulk)	740817.B.250	Plant material	NucleoSpin RNA Plant and Fungi (optional)	With a mixer mill (e.g., Retsch)

Bead Tube Holder

The MN Bead Tube Holder (Cat. # 740469) and MN Bead Tube Holder 5 mL (Cat. # 740459; not shown) are used to position MN bead tubes on a vortexer.



Figure 1. The MN Bead Tube Holder on a Vortex-Genie 2.

Sample homogenization by bead beating.

Protocol



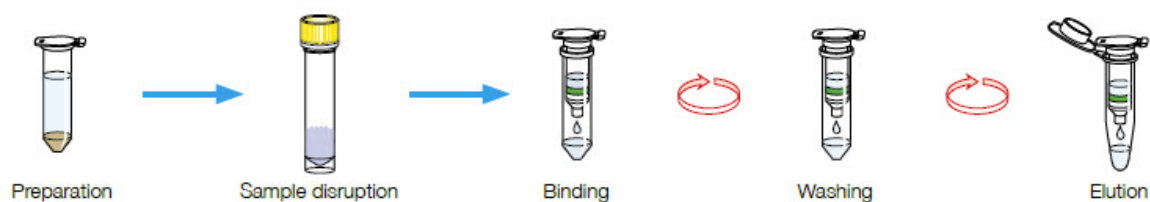


Figure 2. Generalized protocol schematic for extracting nucleic acids from hard-to-lyse samples.

Related Products

Cat. #	Product	Size	License	Quantity	Details
740786.50	MN Bead Tubes Type A	50 Preps	USD \$125.00		↑

Pack of fifty 2-ml tubes containing ceramic beads for sample homogenization. Use in combination with the MN Bead Tube Holder ([Cat. # 740469](#)) and NucleoSpin Soil (e.g., [Cat. # 740780.50](#)) or NucleoSpin Stool ([Cat. # 740472.50](#)), miniprep kits for isolation of total DNA from soil, sediments, or stool samples.



Documents

You May Also Like

Image Data

Required Products

Cat. #	Product	Size	Price	License	Quantity	Details
740469	MN Bead Tube Holder	Each	USD \$41.00			↑
740812.50	MN Bead Tubes Type B	50 Preps	USD \$91.00			↑
740813.50	MN Bead Tubes Type C	50 Preps	USD \$91.00			↑
740814.50	MN Bead Tubes Type D	50 Preps	USD \$125.00			↑
740815.50	MN Bead Tubes Type E	50 Preps	USD \$125.00			↑
740816.50	MN Bead Tubes Type F	50 Preps	USD \$135.00			↑
740817.50	MN Bead Tubes Type G	50 Preps	USD \$190.00			↑
740469	MN Bead Tube Holder	Each	USD \$41.00			↑
740459	MN Bead Tube Holder 5 mL	Each	USD \$50.00			↑
740799.50	MN Bead Tubes Type A 5 mL	50 Preps	USD \$86.00			↑
740786.B.250	Type A Ceramic Beads, 0.6–0.8 mm (Bulk)	400 g	USD \$340.00			↑
740809.B.5000	Type B1 Glass Beads, 40–70 µm (Bulk)	750 g	USD \$570.00			↑
740812.B.1000	Type B2 Glass Beads, 0.3–0.4 mm (Bulk)	750 g	USD \$570.00			↑
740813.B.250	Type C Corundum Beads, 1 mm (Bulk)	200 g	USD \$101.00			↑

Cat. #	Product	Size	License	Quantity	Details
740814.B.1000	Type D Steel Beads, 3 mm (Bulk)	500 g	USD \$248.00		^
740817.B.250	Type G Steel Beads, 5 mm (Bulk)	500 g	USD \$301.00		^
740851.4	MN 96 Bead Plate Type B	4 x 96 Preps	USD \$311.00		^
740851.24	MN 96 Bead Plate Type B	24 x 96 Preps	USD \$1645.00		^
740853.4	MN 96 Bead Plate Type D	4 x 96 Preps	USD \$422.00		^
740853.24	MN 96 Bead Plate Type D	24 x 96 Preps	USD \$2265.00		^

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