

DNA purification products from MACHERY-NAGEL

DNA mini kit for microorganisms

Get microbial DNA the easy way

NucleoSpin[®] Microbial DNA



Suitable for a large variety of starting materials

High quality DNA from gram-positive and gram-negative bacteria, yeast, and fungi

NucleoSpin[®] Bead Tubes for efficient lysis included

Compatible with many disruption devices

Fast and easy procedure

Liquid Proteinase K included – no additional enzyme required

...high quality DNA for reliable downstream applications

MACHERY-NAGEL

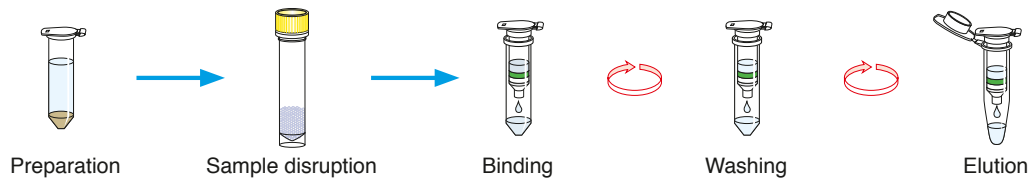
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NucleoSpin® Microbial DNA

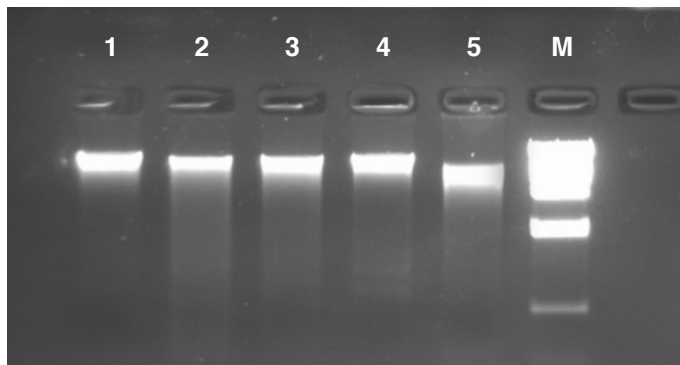
Product at a glance

Technology	Silica-membrane technology
Sample material	< 40 mg wet weight cell pellet
Fragment size	200 bp–approx. 50 kbp
Typical recovery	Depends on sample type and disruption Approx. 5–25 µg (30 mg wet weight cell pellet)
A ₂₆₀ /A ₂₈₀	1.6–2.0
Elution volume	100–200 µL
Preparation time	35 min/6 preps
Binding capacity	60 µg

Procedure



Application data



Efficient DNA recovery from different microorganisms

DNA was isolated with the NucleoSpin® Microbial DNA kit and NucleoSpin® Bead Tube Type B (included in the kit) or NucleoSpin® Bead Tube Type C (see ordering information). 100 ng DNA per prep was analyzed by agarose gel electrophoresis showing high molecular DNA without RNA contamination or DNA degradation.

1. *Escherichia coli*, NucleoSpin® Bead Tube Type B
2. *Vibrio fischerii*, NucleoSpin® Bead Tube Type B
3. *Bacillus subtilis*, NucleoSpin® Bead Tube Type B
4. *Corynebacterium glutamicum*, NucleoSpin® Bead Tube Type B
5. *Saccharomyces cerevisiae*, NucleoSpin® Bead Tube Type C

Ordering information

Product	Specifications	Preps	REF
NucleoSpin® Microbial DNA	NucleoSpin® Bead Tubes Type B included	10/50	740235.10/.50
Related products	Specifications	Preps	REF
NucleoSpin® Bead Tubes Type A	0.6–0.8 mm ceramic beads	50	740786.50
NucleoSpin® Bead Tubes Type B	40–400 µm glass beads	50	740812.50
NucleoSpin® Bead Tubes Type C	1–3 mm corundum	50	740813.50

Microorganism

Microorganism	Tested by
<i>Acinetobacter</i>	customer
<i>Aspergillus spec.</i>	MN
<i>Bacillus subtilis</i>	MN
<i>Clostridium ljungdahlii</i>	customer
<i>Corynebacterium glutamicum</i>	MN
<i>Escherichia coli</i>	MN
<i>Eurotium spec.</i>	customer
<i>Klebsiella pneumoniae</i>	customer
<i>Microbacterium spec.</i>	customer
<i>Pichia pastoris</i>	customer
<i>Pseudomonas aeruginosa</i>	customer
<i>Rhizopus spec.</i>	MN
<i>Saccharomyces cerevisiae</i>	MN
<i>Staphylococcus epidermis</i>	customer
<i>Streptococcus pneumoniae</i>	customer
<i>Trametes spec.</i>	customer
<i>Vibrio fischerii</i>	MN

Various applications

DNA was successfully isolated from the above mentioned microorganisms by the NucleoSpin® Microbial DNA kit.

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MACHEREY-NAGEL



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