

MACHEREY-NAGEL

# Isolation of DNA from yeast

Bioanalysis



## NucleoSpin® DNA Yeast

- Optimized lysis with MN Bead Tubes Type C
- Up to 100 mg of sample input
- High genomic DNA yields

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# Isolation of DNA from yeast

## NucleoSpin® DNA Yeast

For DNA from yeast: Don't lyse hard, lyse smart!

Protocols for isolation of DNA from yeast typically include either a chemical treatment to weaken the cell walls or a mechanical lysis with glass beads. The former requires additional hands-on time, the latter often is inefficient leading to prolonged lysis times and low DNA yields.

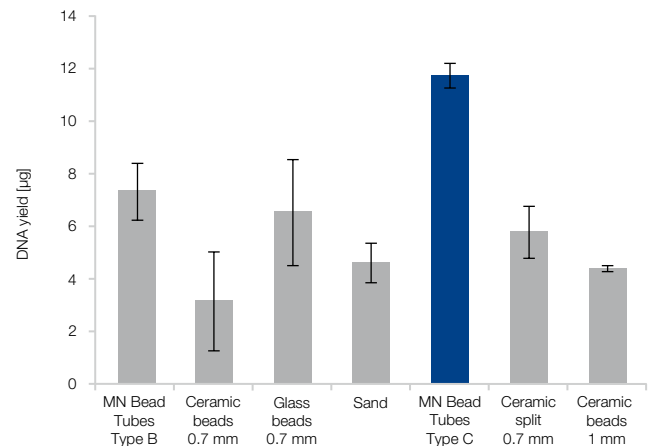
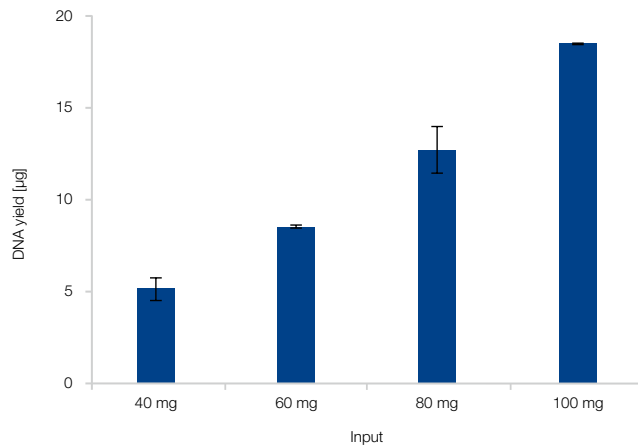
The NucleoSpin® DNA Yeast kit contains MN Bead Tubes Type C with corundum beads for most efficient lysis. Using corundum beads improves the lysis resulting in a drastically increased DNA yield. The kit delivers superior yields for various, popular yeast species, including *Saccharomyces cerevisiae*, *Schizosachharomyces pombe* and *Pichia pastoris*.

## Product specifications



Technology & Format	Silica membrane mini spin kit
Sample material	Yeast, fungi
Sample amount	≤ 100 mg (wet weight)
Fragment size	200 bp – approx. 50 kpb
Typical yield	Up to 20 µg (depending on sample amount and quality)
Elution volume	100 – 200 µL
Processing time	35 min / prep

## Application data



### High DNA yields and efficient sample disruption from up to 100 mg sample

- A) DNA was purified from 40–100 mg of cultured yeast (wet weight). DNA yield linearly increases with sample input.
- B) Yeast samples (40 mg) were subjected to mechanical lysis with different types of beads. MN Bead Tubes Type C deliver the highest DNA yield in subsequent purification with NucleoSpin® DNA Yeast kit.

## Ordering information

Product	Specifications	Preps	REF
NucleoSpin® DNA Yeast	Mini prep kit for isolation of genomic DNA from yeast – NucleoSpin® DNA Yeast columns, MN Bead Tubes Type C, buffers, collection tubes	10/50	740236.10/.50
MN Bead Tubes Type C	2 mL tubes with 1–3 mm corundum; for homogenization of yeast and fungi	50	740813.50

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