

MACHEREY-NAGEL

Wipe PCR inhibitors away

Bioanalysis



NucleoSpin® Inhibitor Removal

Get pure and amplifiable DNA for your downstream application!

- Removes PCR inhibitors and discoloration
- Superior DNA recovery
- Two optimized protocols enable purification of even the most diverse samples

MACHEREY-NAGEL

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Clean up of contaminated DNA samples

NucleoSpin® Inhibitor Removal

Overcome PCR inhibitors and make your samples amplifiable!

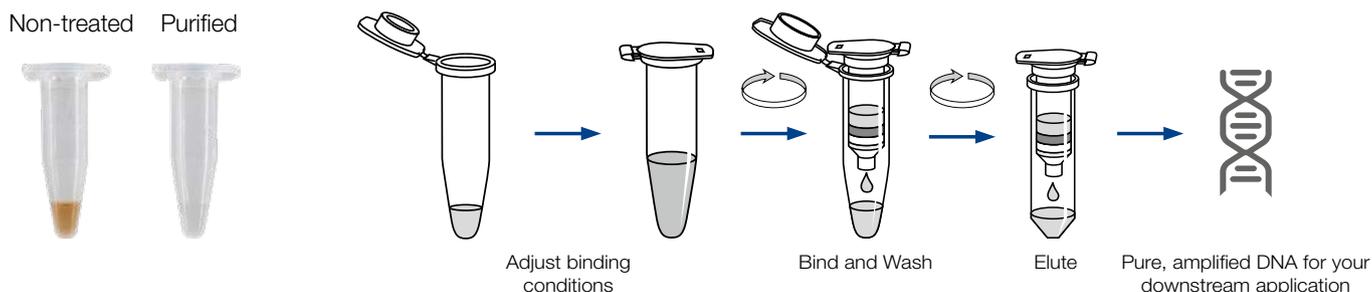
Humic acids, polyphenols and heme are among the most notorious PCR inhibitors, leading to false negative or underestimated results through PCR inhibition. Non-optimized DNA extraction protocol, including phenolic extractions or home brew methods often co-purify PCR inhibitors. Our NucleoSpin® Inhibitor Removal kit removes contaminants and discoloration, recovers high DNA yields and will provide you with high quality DNA from previously non amplifiable DNA samples.

Product specifications

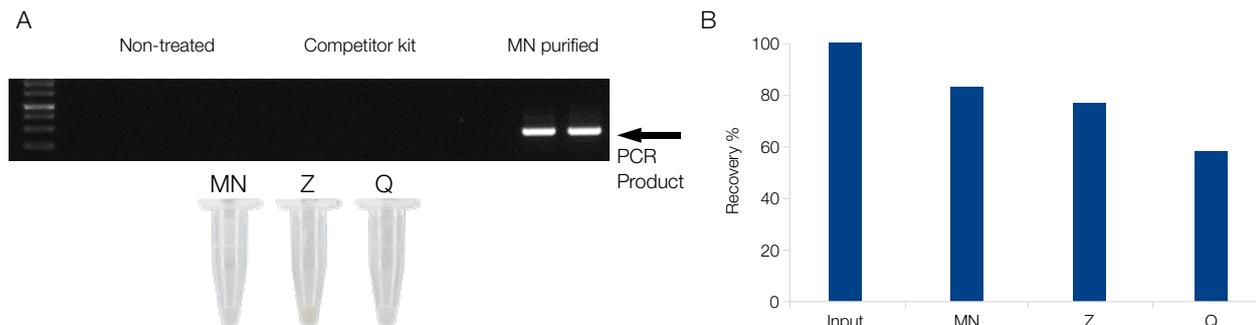
Technology & Format	Silica membrane mini spin kit
Sample material	Contaminated DNA preparations from diverse sample source
Sample amount	Up to 100 µL
Fragment size	200 bp – approx. 50 kpb
DNA recovery	Typically >75 %
Elution volume	50–100 µL
Processing time	15 min / 6 prep
Binding capacity	60 µg



Remove PCR inhibitors with a fast and easy-to-follow workflow



Get pure, amplifiable DNA from previously non amplifiable samples



C Heme contaminated samples

Kit	Input	MN	Z
A _{260/280}	0.9	1.7	1.6
A _{260/230}	0.5	1.8	0.7

Humic acid contaminated samples

Kit	Input	MN	Z
A _{260/280}	1.2	1.6	1.3
A _{260/230}	0.5	1.2	0.8

Polyphenol contaminated samples

Kit	Input	MN	Z
A _{260/280}	1.1	1.7	1.4
A _{260/230}	0.4	2.3	0.5

Remove PCR inhibitors and discoloration

A) DNA is efficiently amplified by PCR following purification with the NucleoSpin® Inhibitor Removal Kit. PCR amplification was completely inhibited for the non-treated but also for the sample processed with a competitor clean up kit. Equal amounts of DNA were used for each PCR and equivalent volumes were analyzed on an agarose gel. B) Superior DNA recovery with NucleoSpin® Inhibitor Removal Kit C) NucleoSpin® Inhibitor Removal Kit improves A_{260/280} and A_{260/230} ratios and qPCR results for a huge variety of known PCR inhibitors, including polyphenolic compounds, humic acids and heme.

Ordering information

Product	Specifications	Preps	REF
NucleoSpin® Inhibitor Removal	Mini prep kit for purifying genomic DNA from contaminated and discolored DNA preparations – NucleoSpin® Inhibitor Removal columns, buffers, collection tubes	10 50	740408.10 740408.50

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