

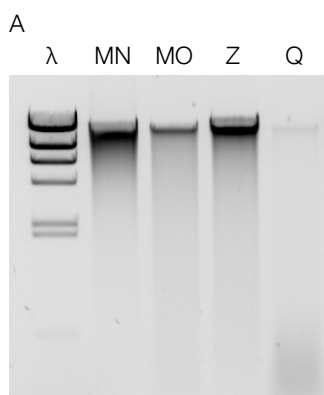
NucleoSpin® DNA Stool

- New inhibitor removal technology for efficient removal of PCR inhibitors (like polysaccharides or bile salts in stool samples)
- Lysis is supported by mechanical disruption with ceramic beads

Product at a glance

Technology	Silica-membrane technology combined with Bead Tubes Type A
Sample material	< 100 mg fresh or frozen stool samples (human / animal)
Fragment size	200 bp–approx. 50 kbp
Typical yield	Depends on sample type, quality, and water content
A_{260}/A_{280}	1.7–1.9
Elution volume	30–100 μ L
Preparation time	60 min
Binding capacity	50 μ g

Application data



High genomic DNA yield and purity from human stool samples.

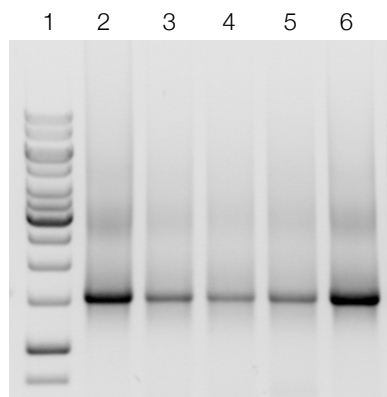
DNA was isolated from human stool samples with the NucleoSpin® DNA Stool kit (MN) and with competitor products (MO, Z, Q).

A: The DNA was extracted according to manufacturers' protocols and 5% of the eluate were subjected to gel electrophoresis.

B: DNA yield and quality of the samples shown in (A) were assessed by means of UV absorption measurement. The genomic DNA isolated with the NucleoSpin® DNA Stool kit showed superior yield and quality.

B

	MN	MO	Z	Q
Yield DNA [μ g]	9.2	5.8	6.9	7.4
A_{260}/A_{280}	1.8	1.7	1.5	1.9
A_{260}/A_{230}	2.1	1.6	1.2	1.9



Efficient removal of PCR inhibitors from various sample sources.

DNA was isolated from human and animal feces samples with the NucleoSpin® DNA Stool kit. 5 μ L of undiluted eluate served as template for the amplification of a 1.5 kb fragment from the bacterial 16S rRNA gene in an endpoint-PCR (35 cycles). The DNA extracted with the NucleoSpin® DNA Stool kit works undiluted in a PCR reaction, indicating the successful removal of PCR inhibitors.

Lane 1: GeneRuler™ 1kb Ladder (Thermo)

Lane 2: Feline

Lane 3: Sheep

Lane 4: Rabbit

Lane 5: Mouse

Lane 6: Human

Ordering information

Product	Preps	REF
NucleoSpin® DNA Stool	10/50	740472.10/50