



ENVIRONMENTAL MICROBIOLOGY

Discover the World of Metagenomics

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OPTIMIZE YOUR
ENVIRONMENTAL RESEARCH
WORKFLOW
WITH
MP BIOMEDICALS
SAMPLE PREPARATION SOLUTION



FastPrep® Sample Preparation

FastPrep® Instruments

FastPrep-24™ Classic

Catalogue Number: 116004500



Time-tested sample prep system

Effective

Unique optimized figure-8 motion ensuring a thorough grinding of the most resistant samples.

Proven

Backed by 8,500 publications.

Flexible

Easily interchangeable adapters to process any sample size (2 mL, 4.5 mL, 5 mL, 15 mL or 50 mL tubes) at cryogenic or room temperature.

FastPrep-24™ 5G

Catalogue Number: 116005500



The most advanced sample prep system available

Powerful

Highest speed available (10 m/s) offering the best performance for the lysis of the most resistant samples.

Intuitive

Interactive user-friendly interface and touchscreen with more than 70 pre-programmed protocols.

Flexible

Easily interchangeable adapters to process any sample size (2 mL, 4.5 mL, 5mL, 15 mL or 50 mL tubes) at cryogenic or room temperature.

Typical settings for grinding various environmental samples with the FastPrep-24™ 5G instrument

Below is a table illustrating the typical speed and time settings for grinding 50 mg of various environmental samples with the FastPrep-24™ 5G instrument and Lysing Matrix E tubes.

Sample Type	FastPrep® Speed (m/s)	FastPrep® Time
Soil / Rock	5.5	2 x 30 sec
Sandy Sample	4.0	4 x 30 sec
Litter	5.5	30 sec
Brunisol Dark Gray Luvisol	5.5	40 sec
Soil from Grassland	5.5	2 x 30 sec
Rhizosphere	6.0	40 sec
Marine Sediment	5.5	2 x 40 sec
Asphalt-Permeated Soil	6.0	40 sec

FastPrep-96™ Pro

Catalogue Number: 116014500



Real Time Monitoring: LED indicators display run status

Easy Operation

Touchscreen interface simplifies setup.

Efficient Motion

True linear motion ensures consistent results.

Flexible

Available adapters for any sample size, from 2 to 250 mL and 96-well plates.

FastPrep-96™

Catalogue Number: 116010500



High throughput sample grinding

High throughput

Process up to 192 samples simultaneously in 2 x 96 deep well plates.

Exceptional versatility

Easily interchangeable adapters available for 2 x 96 deep well plates, 96 x 2 mL tubes, 48 x 4.5 mL tubes, 20 x 15 mL tubes, 8 x 50 mL tubes and 2 x 250 mL bottles.

True linear motion

Eliminates the need to reorient plates mid-cycle.

Super FastPrep-2™

Catalogue Number: 116012500



Portable field testing

Thorough grinding

Omnidirectional motion and unique, patent-pending balanced crankshaft-slider mechanism for aggressive bead beating lysis and amazing performance.

Time saving

Complete sample lysis of even the most difficult samples in 5 to 15 seconds, and processing designed for two 2 mL Lysing Matrix tubes.

Portable

Handheld system for lab and field use, with cordless battery power supply.

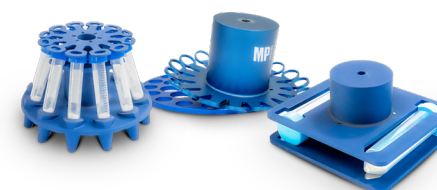
FastPrep® Adapters

FastPrep-24™ 5G/Classic



Description	Size	Catalogue No.
QuickPrep (Classic)	24 x 2 mL	116002512
QuickPrep (5G)	24 x 2 mL	116005512
HiPrep	48 x 2 mL	116002527
TallPrep	24 x 4.5 mL	116002540
TeenPrep	12 x 15 mL	116002526
BigPrep	2 x 50 mL	116002525

FastPrep-24™ 5G/Classic



Description	Size	Catalogue No.
Metal QuickPrep	24 x 2 mL	116002545
Metal TeenPrep	12 x 15 mL	116002546
Metal BigPrep	2 x 50 mL	116002547
Metal MidiPrep	18 x 5 mL	116002544

FastPrep-24™ 5G/Classic



Description	Size	Catalogue No.
CoolPrep	24 x 2 mL	116002528
CoolTeenPrep	6 x 15 mL	116002530
CoolBigPrep	2 x 50 mL	116002531

FastPrep-96™



Description	Size	Catalogue No.
Dual Plates	2 x 96	119696168
QuickFlex	96 x 2 mL	116010570
TallFlex	48 x 4.5 mL	116010580
TeenFlex	20 x 15 mL	116010560
BigFlex	8 x 50 mL	116010550
LargeFlex	2 x 250 mL	116010590
ConeFlex	up to 40g	116010595
Metal Dual Plate Holder (also applicable for FastPrep-96™ Pro)	2 x 96	119696169
Metal QuickFlex™ (also applicable for FastPrep-96™ Pro)	2 x 96	116010575

FastPrep® Comparison Table



	FastPrep-24™ Classic	FastPrep-24™ 5G
Description	Bench-Top Bead Beating Lysis System	Advanced Bench-Top Bead Beating Lysis System
Sample Capacity	Up to 48	Up to 48
Adapters	Interchangeable	Interchangeable
Tube Compatibility	2ml, 4.5ml, 5ml, 15ml, 50ml	2ml, 4.5ml, 5ml, 15ml, 50ml
Cryogenic Lysis	Yes	Yes
Interface	LCD/membrane keyboard	Touch Screen
Pre-Defined Protocols	No	72
User Defined Protocols	5	12
Min Speed	4.0 m/s	4.0 m/s
Max Speed	6.5 m/s	10.0 m/s
Acceleration	<2 sec to max	<2 sec to max
Deceleration	< 2 sec to stop	< 2 sec to stop
Motion	Figure 8 Tridimensional	Figure 8 Tridimensional
Typical Lysis Time (s)	40	20
Dimensions	465 mm (H) x 437 mm (W) x 332 mm (L)	490 mm (H) x 472 mm (W) x 385 mm (L)
Weight	17.5 kg (45 lb)	23.6 kg (52 lb)
Loudness	70 dB	<70 dB
Power requirements	90-250 V AC, 50/60 Hz, 500W	120 VAC/60 Hz, 500W; 230 VAC/50 Hz, 500 W
110/230V switch	Automatic	Automatic



	FastPrep-96™ Pro	FastPrep-96™	Super FastPrep-2™
Description	High Throughput, Performance, Compact Bead-Beating Lysis System	High Throughput, High-Performance Bead Beating Lysis System	High-Performance, Handheld Field Lysis system
Sample Capacity	Up to 192	Up to 96	2
Adapters	Interchangeable	Interchangeable	No
Tube Compatibility	2ml, 4.5ml, 15ml, 50ml, 96 plate, 250 ml	2ml, 4.5ml, 15ml, 50ml, 96 plate, 250 ml	2ml
Cryogenic Lysis	Yes	Yes	No
Interface	Touch Screen / industrial buttons	VFD/ industrial buttons	manual-button
Pre-Defined Protocols	No	No	No
User Defined Protocols	1	1	No
Min Speed	800 RPM	800 RPM	500 CPM
Max Speed	1800 RPM	1800 RPM	4,400 CPM
Acceleration	<2 sec to max	<2 sec to max	Ø 500 G
Deceleration	<2 sec to stop	< 2 sec to stop	NA
Motion	Vertical	Vertical Linear	Reciprocating
Typical Lysis Time (s)	40	40	5
Dimensions	540 mm (H) x 400 mm (W) x 660 mm (L)	700mm (H) x 440mm (W) x 660mm (L)	13"L x 3.4"W x 4.6"H
Weight	30 kg	49 kg (108 lb)	2.2 kg
Loudness	< 70 dB	<65 dB	<100 dB
Power requirements	110V AC / 60Hz, 11A; 220 V AC / 50Hz, 15A	110VAC/60 Hz, 5.2A; 220 VAC/50 Hz, 2.6A	90-240 V for battery charger, cordless operation
110/230V switch	Automatic	Automatic	Battery loader spec

FastPrep® Lysing Matrix

Tailored to environmental samples

The use of MPBio's Lysing Matrix E and Y in combination with FastPrep® instruments ensures complete and quantitative lysis, resulting in higher yields of DNA. Lysing Matrix E and Y tubes are designed to lyse all microorganisms present in environmental samples, including difficult sources such as eubacterial spores and endospores, gram positive bacteria and yeast, and plant and animal tissues.

Our complete portfolio of Lysing Matrix tubes can be found on our website at www.mpbio.com.

Sample Type	Lysing Matrix																	
Microorganisms	A	B	C	D	E	F	G	H	I	J	K	M	S	SS	Y	YB	Z	
Bacteria (gram + and -)	●	●				●				●								
Yeast, Mold	●		●			●	●				●				●			
Bacterial & Fungal spore	●	●				●	●		●	●	●			●				
Algae	●		●				●								●			
Virus	●	●																
Environmental Samples	A	B	C	D	E	F	G	H	I	J	K	M	S	SS	Y	YB	Z	
Soil, Marine sediment, Rhizosphere, Manure, Compost, Sludge, Feces, Wastewater					●		●	●	●							●		
Plant Tissues	A	B	C	D	E	F	G	H	I	J	K	M	S	SS	Y	YB	Z	
Leaf	●			●		●	●										●	
Seed	●					●	●	●	●			●	●	●				
Root	●					●	●						●					
Needle	●					●	●					●	●					
Wood	●					●	●	●	●									
Stem, Flower	●			●		●	●										●	

Lysing Matrix E Tubes

1.4 mm ceramic beads, 0.1 mm silica beads and 4 mm glass beads



Description	Catalogue No.
50 x 2 mL	116914050
100 x 2 mL	116914100
500 x 2 mL	116914500
25 x 4.5 mL	116974025
25 x 15 mL	116934025
10 x 50 mL	116954010
1x 96 well plate	116984001
1x 96 barcoded well plate	116984001B

Lysing Matrix Y Tubes

0.5 mm Yttria-stabilized Zirconium Oxide Spheres



Description	Catalogue No.
50 x 2 mL	116960050
100 x 2 mL	116960100
500 x 2 mL	116960500
25 x 4.5 mL	116977025
25 x 15 mL	116975025
10 x 50 mL	116976010
1 x 96 well plate	116960001

Lysing Matrix YB Tubes

0.5 mm diameter Yttria-stabilized zirconium oxide beads, 0.1 mm silica spheres



Description	Catalogue No.
50 x 2 mL	116960050
100 x 2 mL	116960100
500 x 2 mL	116960500

MagBeads Extraction Kit

MagBeads FastDNA™ Kit for Soil



High quality DNA

High concentrations of pure DNA that is free from inhibitors

Simple protocol

Easy to use, high throughput, and designed for both manual and automated magnetic processors including MPure-32™ and MPure-96™

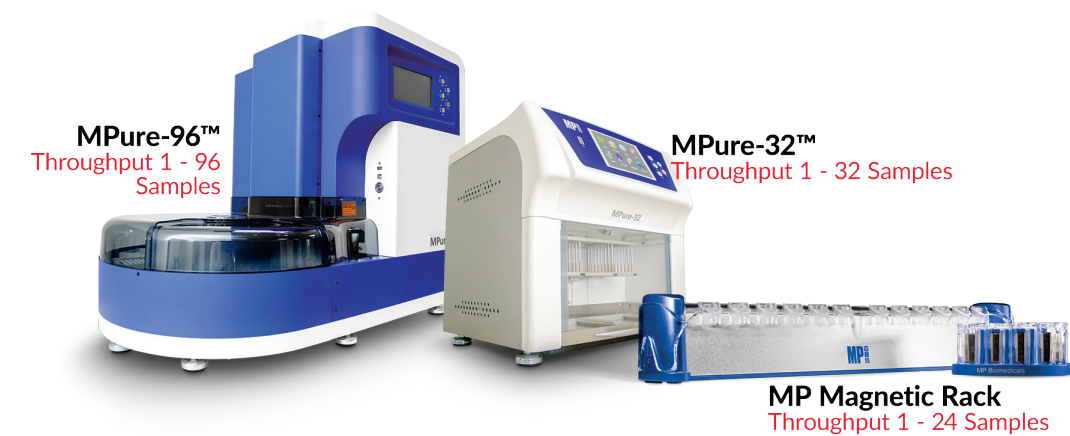
Wide applicability

Wide range of applications, suitable for all types of soil samples

Environmentally friendly

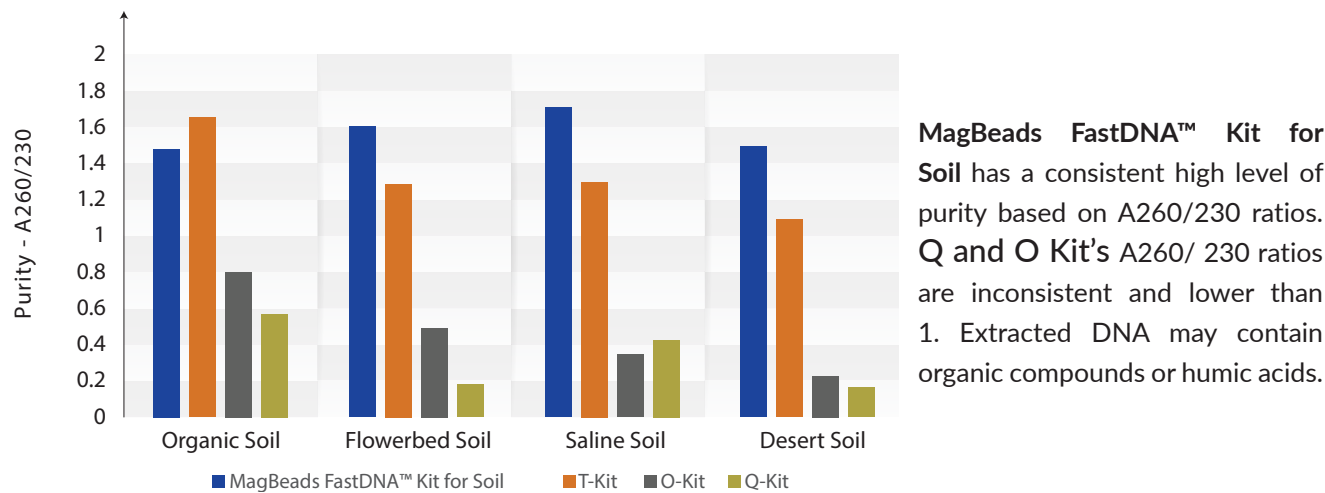
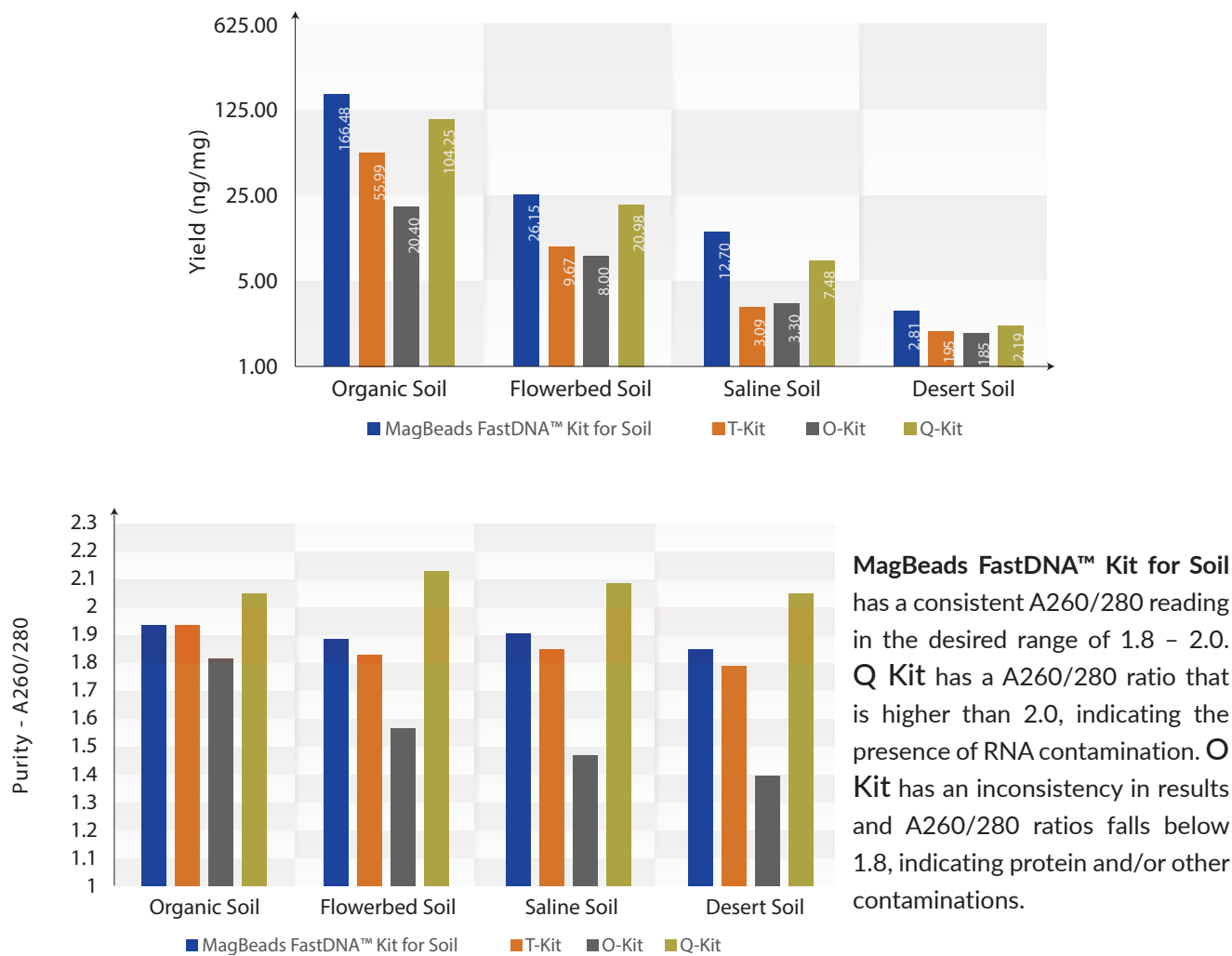
No phenol/ chloroform or other toxic chemicals

Automation Instruments Automated Magnetic Processor

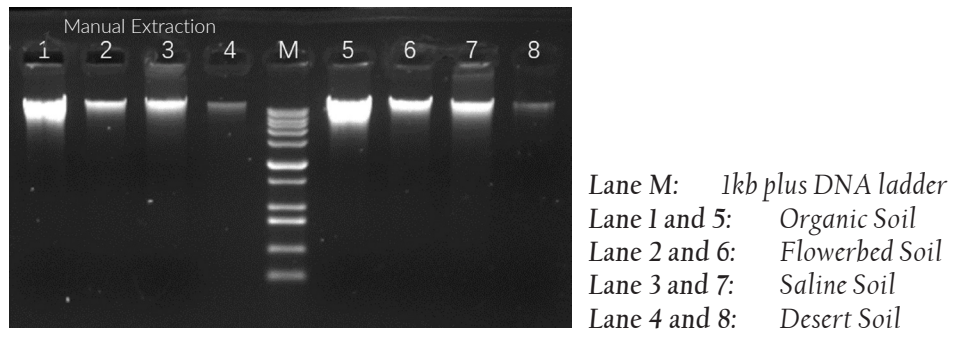


Product Comparison

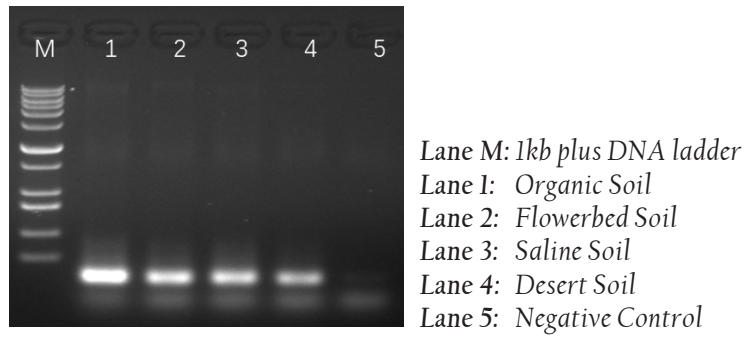
MagBeads FastDNA™ Kit for Soil has the highest yield across different types of samples.



Product Performance



Genomic DNA was extracted from different soil samples using MagBeads FastDNA Kit for Soil. Agarose gel electrophoresis image showed a comparable profile between manual and automation extraction methods.



PCR amplification products were successfully obtained from the DNA extracted from various types of soil samples using MagBeads FastDNA Kit for Soil; this demonstrates that all extracted DNA samples were free of PCR inhibitor.

Order Information

Product Name	Size	Catalogue No.
MP Magnetic Rack 8	1 each	116570426
MP Magnetic Rack 24	1 each	116570413
MagBeads FastDNA® Kit for Soil	50 preps	116561050
MagBeads FastDNA® Kit for Soil (Ready-to-Use for MPure-32)	96 preps	117033100
MagBeads FastDNA® Kit for Soil (Ready-to-Use for MPure-96)	96 preps	117034100

MagBeads FastDNA™ Kit for Feces



High quality DNA

High yield of pure DNA that is free from inhibitors

Simple protocol

Easy to use, high throughput and compatible with many automated instruments especially on MPure-32™ and MPure-96™

Wide applicability

Wide range of applications, suitable for all types of feces, intestinal content

Environmentally friendly

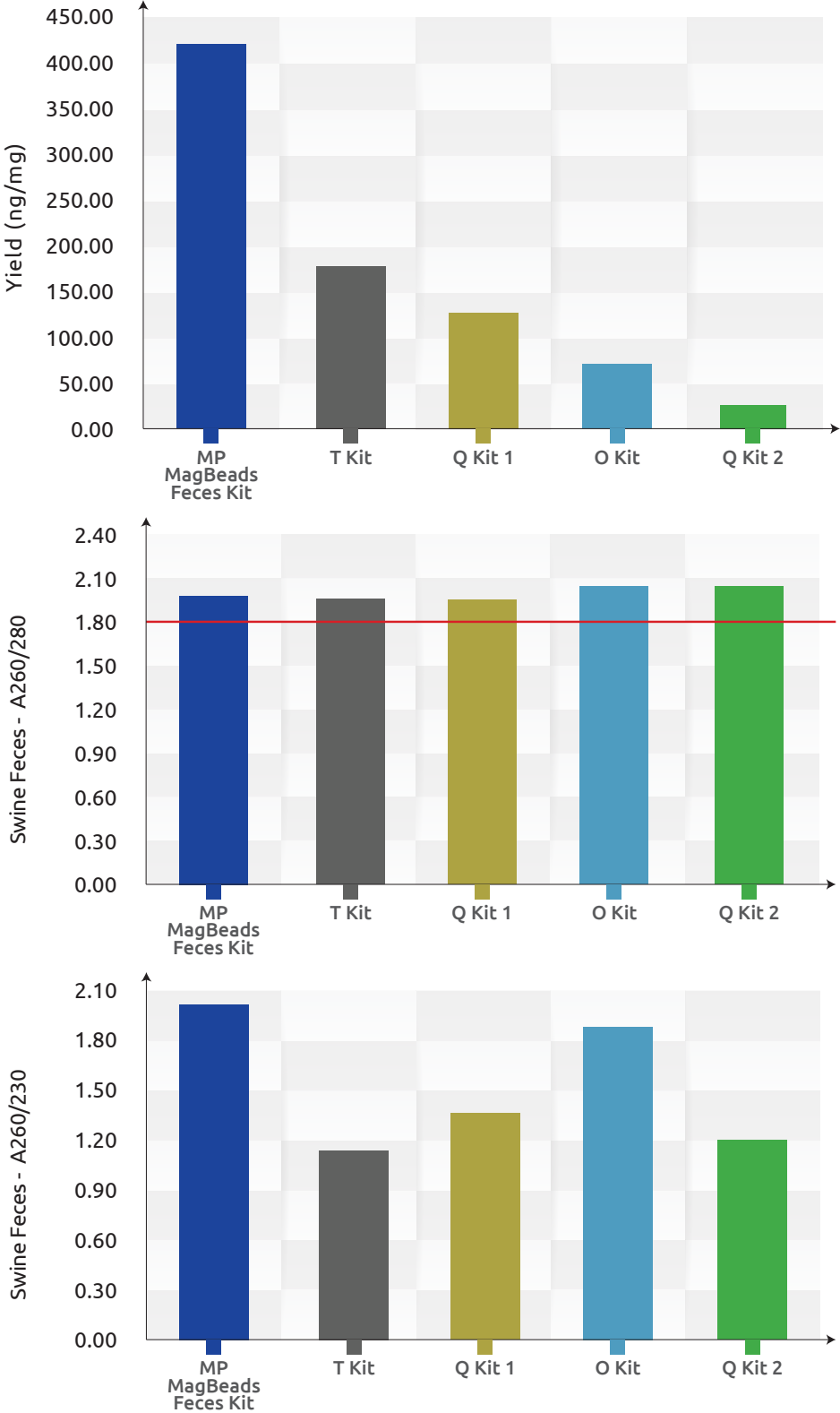
No phenol/ chloroform or other toxic chemicals

Automation Instruments

Automated Magnetic Processor



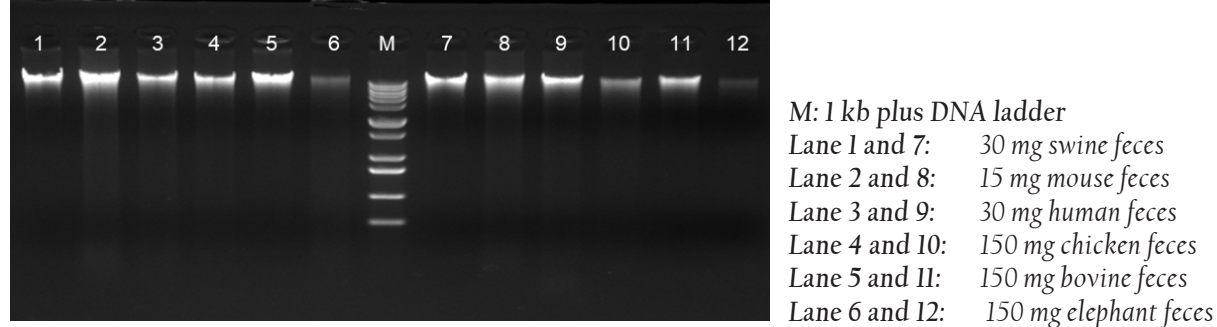
Product Comparison



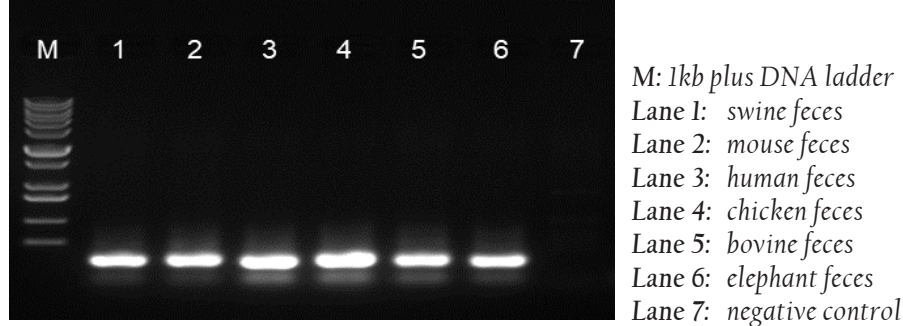
Figures demonstrating DNA yields and absorbance ratios result extracted from feces sample using MagBeads FastDNA kit for Feces and other competitor kits following manufacturer's recommended protocols.

*Other tested sample: Chicken, bovine, human, dog, mouse, elephant, goat (not shown)

Performance



Genomic DNA was extracted from different feces samples using MagBeads FastDNA Kit for Feces. Agarose gel electrophoresis image showed a comparable profile between manual and automation extraction methods.



PCR amplification products were successfully obtained from the DNA extracted from various types of feces samples using MagBeads FastDNA Kit for Feces; this result demonstrated that all extracted DNA samples were free of PCR inhibitor.

Order Information

Product Name	Size	Catalogue No.
MP Magnetic Rack 8	1 each	116570426
MP Magnetic Rack 24	1 each	116570413
MagBeads FastDNA Kit for Feces	50 preps	116570400
MagBeads FastDNA Kit for Feces (Ready-to-Use for MPure-32)	96 preps	117033200
MagBeads FastDNA Kit for Feces (Ready-to-Use for MPure-96)	96 preps	117034200

MagBeads FastRNA™ Kit for Feces

Advanced magnetic bead-based technology with proprietary inhibitor removal for scalable, automatable RNA purification, eliminating fibers, undigested particles, bilirubin, polysaccharides, and lipids from diverse fecal samples

State-of-the-art bead-beating and lysis chemistry with selective RNA binding ensuring efficient homogenization and complete DNA removal via FastDNase I treatment for high-purity RNA compatible with RT-qPCR

Fast and streamlined protocol extracting up to 250 µg of total RNA from 200 mg of fecal samples with minimal handling steps

Versatile ready-to-use formats available for MPure-32™ (Cat. No. 117040300) and MPure-96™ (Cat. No. 117040400) aNAP Systems

Automation Instruments
Automated Magnetic Processor



The **MagBeads FastRNA Kit for Feces** is a scalable, automatable magnetic bead-based technology for efficient RNA isolation from fecal samples, with ready-to-use versions (Cat. No. 117040300 & 117040400). It addresses challenges posed by dietary components like fibers, undigested particles, and lipids— which hinder RNA extraction— using advanced bead-beating technology, compatible lysis chemistry, and proprietary inhibitor removal. The kit features selective RNA binding and FastDNase I treatment to fully eliminate DNA, ensuring high RNA yield and purity. This streamlined process is compatible with RT-qPCR without additional purification steps.

Performance

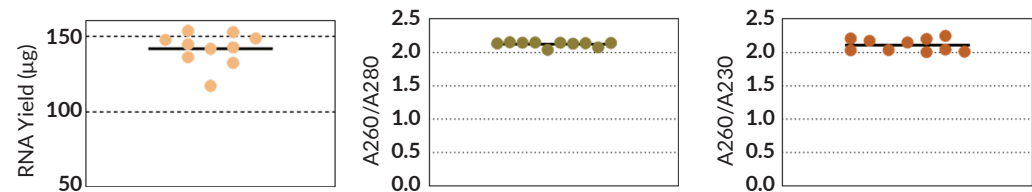


Figure 1. RNA Yield and Purity from Fecal Samples Extracted with MagBeads FastRNA Kit for Feces. RNA yield and purity (A260/A280 and A260/A230 ratios) obtained from three human fecal sources. Each dot represents an individual sample processed with the MagBeads FastRNA Kit for Feces.

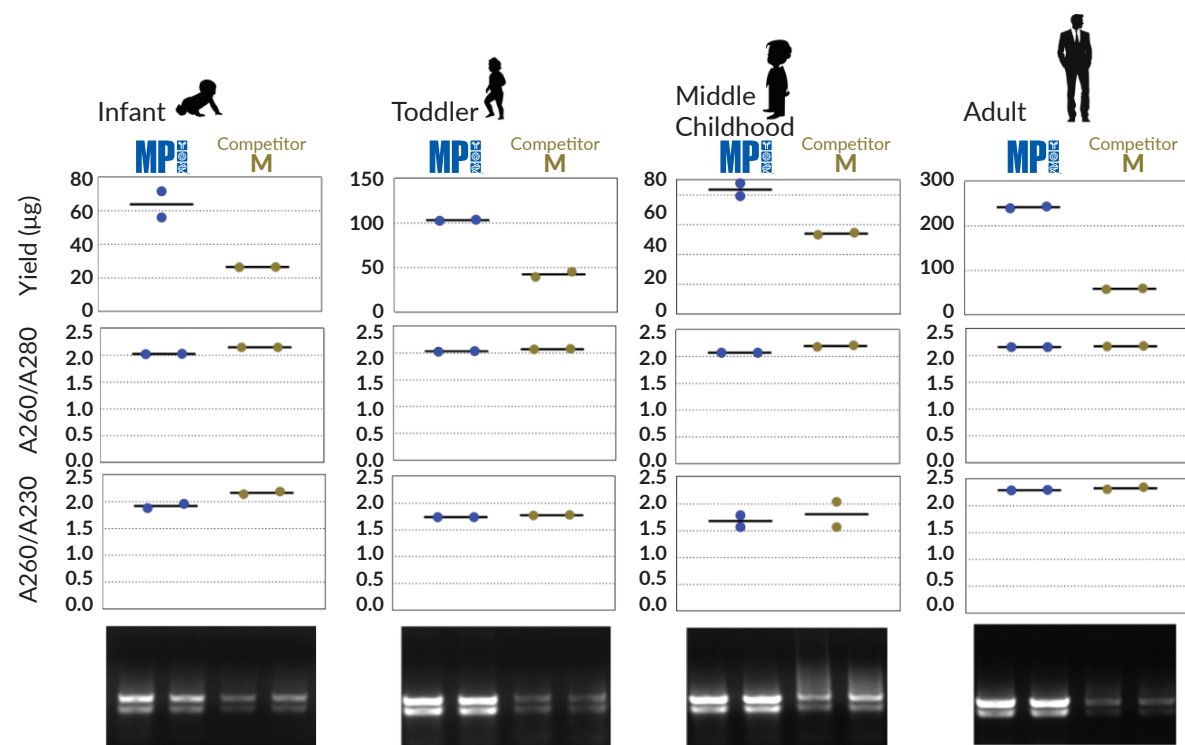


Figure 2. Performance evaluation of RNA extracted from human fecal samples using the MagBeads FastRNA Kit for Feces (MP) compared to Competitor M. RNA was independently extracted from human fecal samples (two extractions per sample, each dot on the plot represents one extraction). The RNA yield, purity (A260/A230 ratio) and integrity were assessed using spectrophotometry and agarose gel electrophoresis.

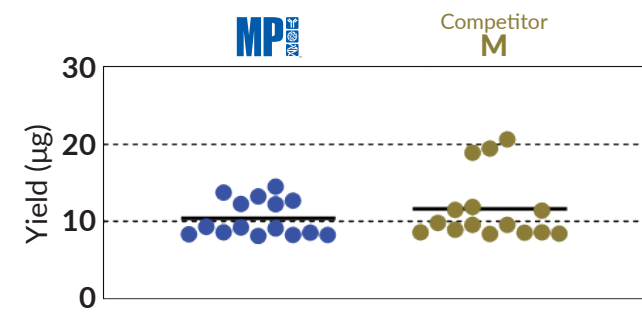
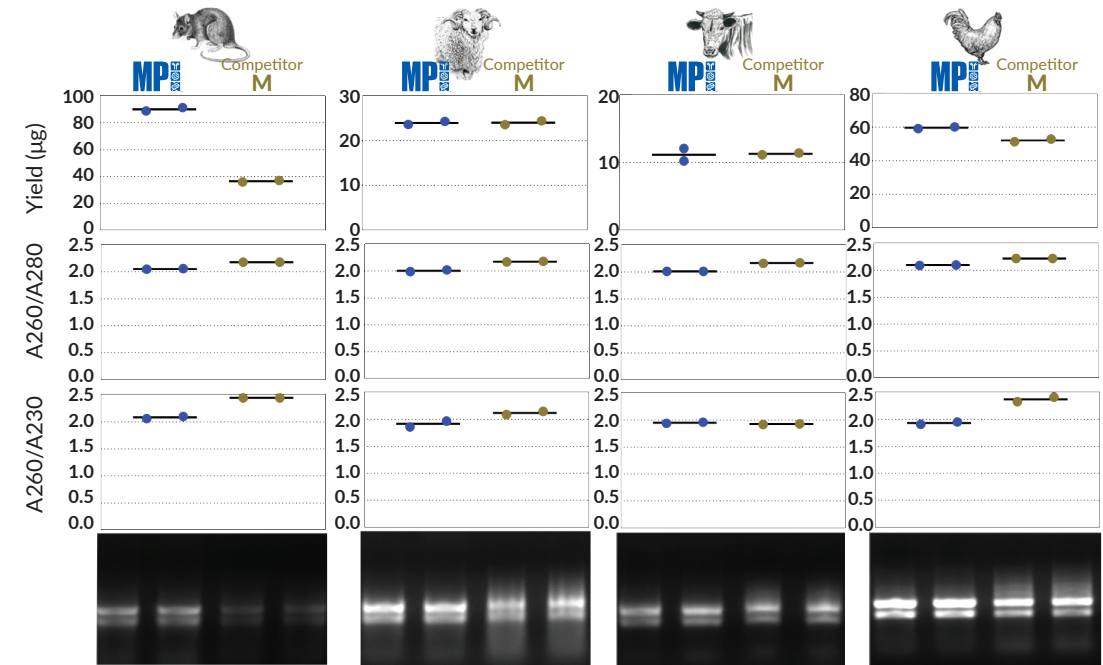


Figure 3: Performance evaluation of RNA extracted from animal fecal samples using the MagBeads FastRNA Kit for Feces (MP) compared to Competitor M. RNA was independently extracted from animal fecal samples (two extractions per sample, each dot on the plot represents one extraction). The RNA yield, purity (A260/A230 ratio) and integrity were assessed using spectrophotometry and agarose gel electrophoresis. In addition, the extracted RNA was also assessed for its amplifiability using qPCR and the Ct values given by MP are earlier than Competitor M. The horizontal bars indicate the median value.

Order Information

Product Name	Size	Catalogue No.
MagBeads FastRNA Kit for Feces	50 Preps	116588050
MagBeads FastRNA Kit for Feces (Ready-to-Use for MPure-32)	96 Preps	117040300
MagBeads FastRNA Kit for Feces (Ready-to-Use for MPure-96)	96 Preps	117040400

SPINeasy® Extraction Kit

SPINeasy® DNA Pro Kit for Soil



Effective isolation
of high quality genomic DNA from high biomass and low biomass sample

Unbiased
alpha diversity results

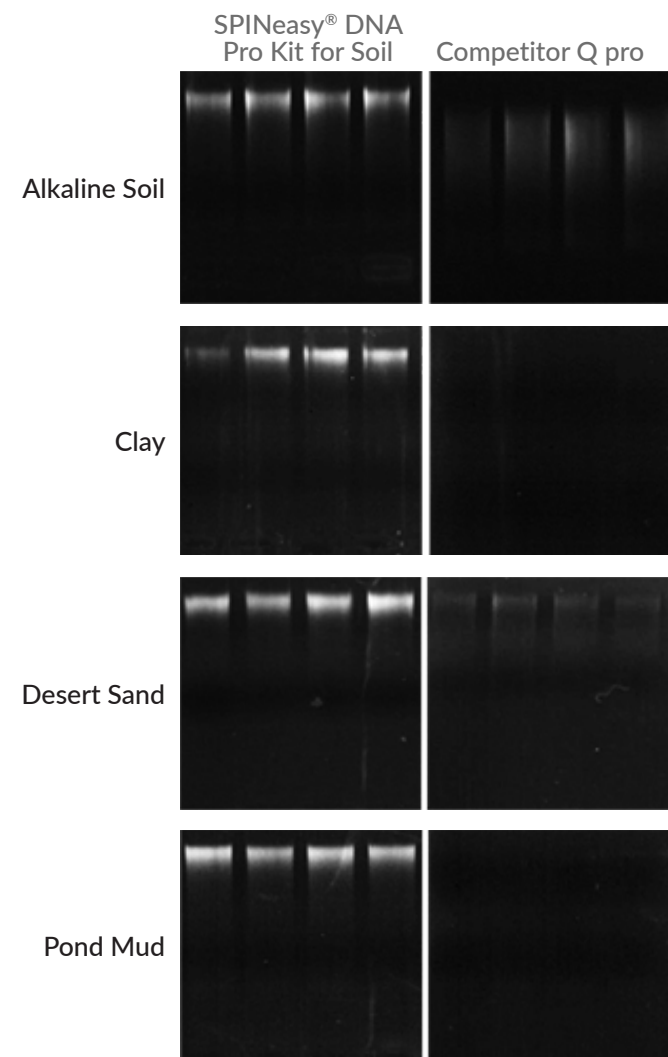
Higher purity
and shorter processing time

Vacuum manifold
compatible

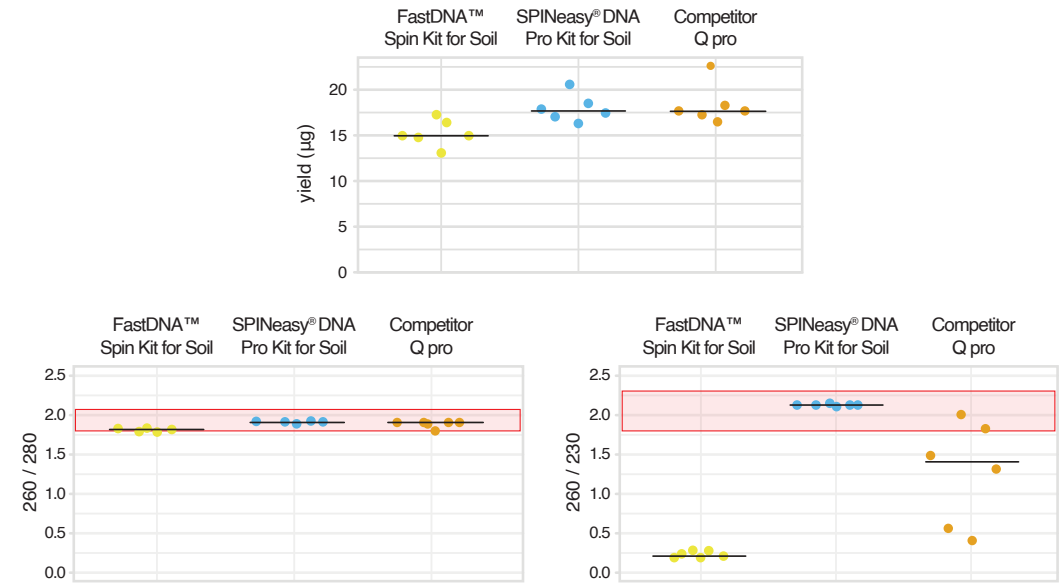
Soil samples are complex environments characterized by the presence of inhibitory compounds, such as humic acid, heavy metals, and other aromatic components which may prove to be challenging for downstream analyses. The **SPINeasy® DNA Pro Kit for Soil** has been carefully designed for the isolation of pure microbiome genomic DNA from challenging soil types including those with low biomass or those highly contaminated.

The **SPINeasy® DNA Pro Kit for Soil** effectively lyses various microbiome population, including bacteria, fungi, viruses, and protists. The kit provides similar yields to that of our highly cited FastDNA™ SPIN Kit, but with improved purity and reduced processing time. Isolated DNA products showed no inhibition in PCR and were immediately ready to be used in downstream applications, including long fragment PCR, qPCR, and next generation sequencing (16S and whole genome) without the need of further inhibitor removal step.

Product Performance

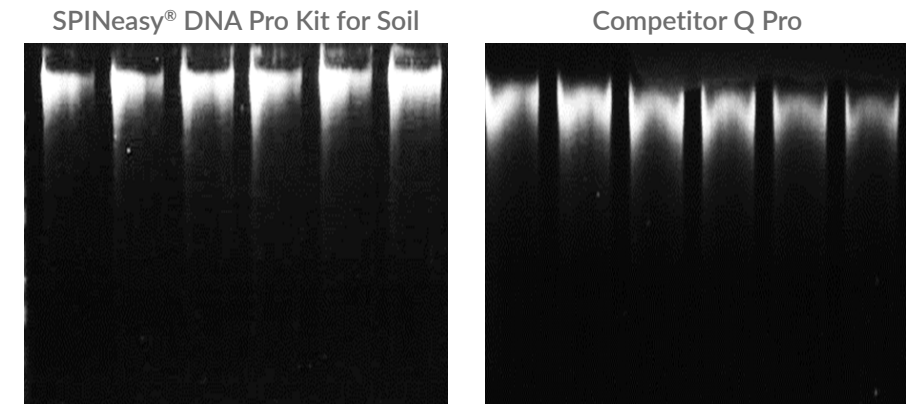


DNA extraction was performed on 250 mg of low biomass soil samples using **SPINeasy® DNA Pro Kit for Soil** and competitor Q Pro kit following manufacturer instruction.



High biomass soil sample was processed using **SPINeasy® DNA Pro Kit** and other extraction kits. The extraction performance was evaluated using a spectrophotometer and summarized with a dot plot with each dot representing a single extraction, or agarose gel to assess the DNA integrity.

Integrity



The **SPINeasy® DNA Pro Kit for Soil** gave superior yield, purity and integrity as compared to other extraction kits.

Order Information

Product Name	Size	Catalogue No.
SPINeasy® DNA Pro Kit for Soil	50 preps	116546050
	5 preps	116546000

SPINeasy® RNA Kit for Soil



Specially designed spin columns
to achieve consistent RNA yields of up to 25 µg from soil samples

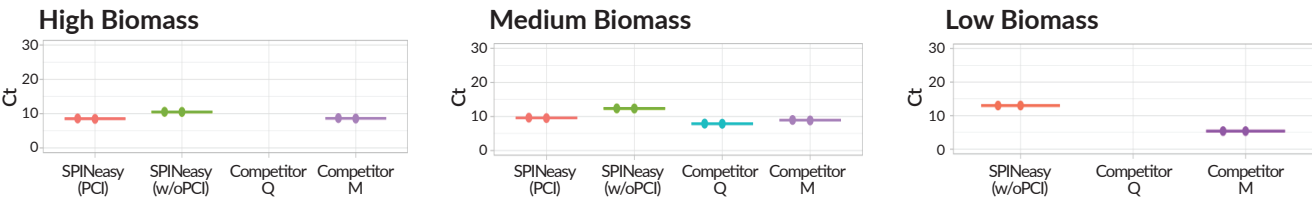
Simple and streamlined protocol
to minimize hands-on time

Suitable
for diverse soil types like compost, clay, sand, and low-biomass samples

Efficient inhibitor removal
to ensure high-quality RNA free from contaminants

The **SPINeasy® RNA Kit for Soil** is a high-performance RNA extraction kit utilizing silica-membrane spin-column technology. This kit allows for the efficient isolation of RNA from various soil types, including those with high humic acid content, heavy contaminants, compost, gardening soil, and low-biomass soils. The extraction process can be completed in under an hour with minimal RNA degradation, and the use of hazardous chemicals like phenol or chloroform is unnecessary. Our specially formulated inhibitor removal technology effectively handles soil samples containing humic acids, heavy metals, and other aromatic compounds, ensuring accurate PCR results. RNA extracted with this kit demonstrates high integrity and purity, suitable for downstream applications such as reverse transcription, real-time PCR, and sequencing.

Product Performance



Comparison of Ct values from RT-qPCR using RNA extracted with the SPINeasy® RNA Kit for Soil versus competitors Q and M. Testing was conducted on high-biomass (50 ng), medium-biomass (50 ng), and low-biomass (30 ng) soil samples, with amplification performed using SYBR Green technology.

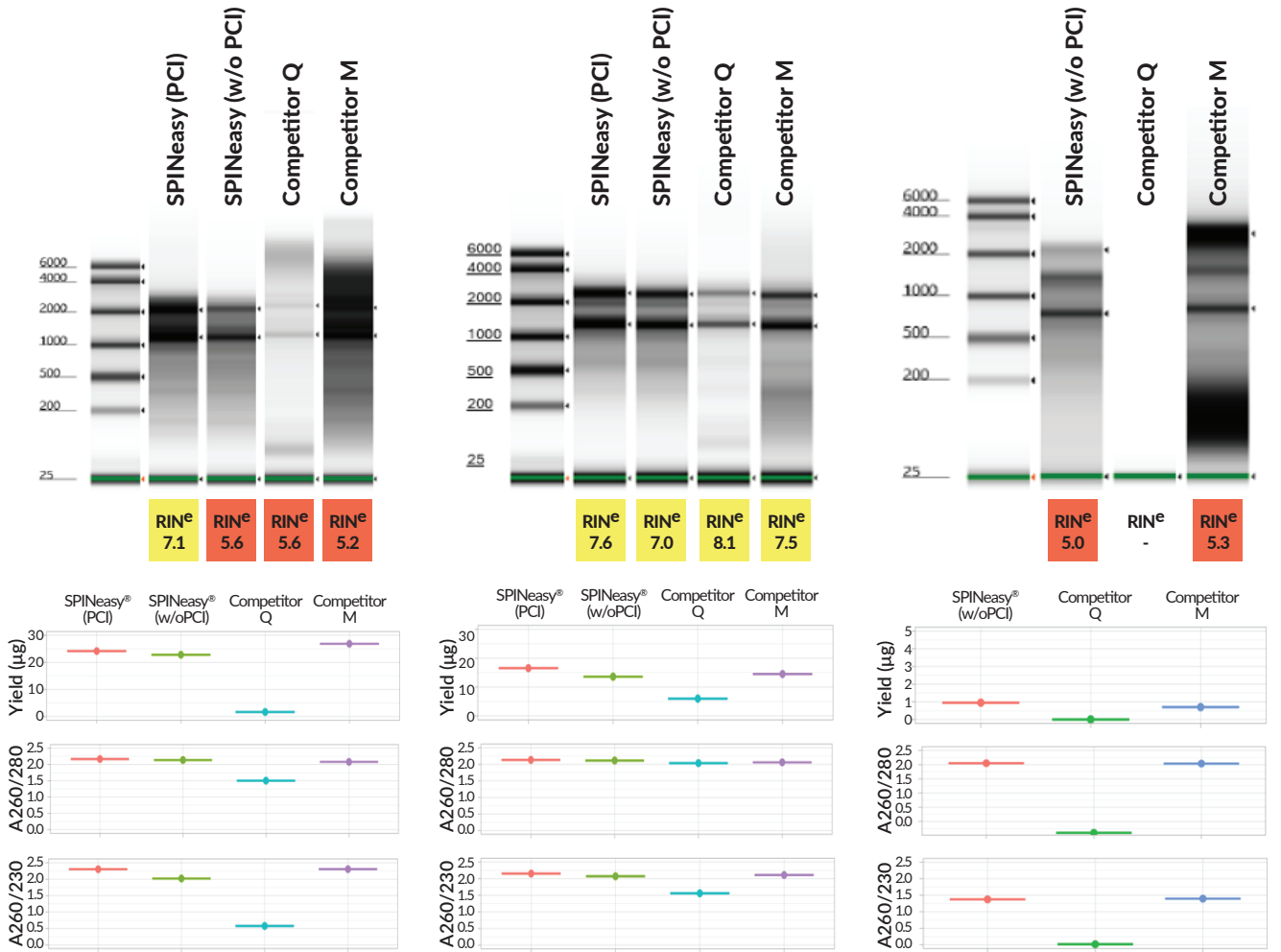
Organic Compost Soil from Location A (High Biomass Soil)



Organic Compost Soil from Location B (Medium Biomass Soil)



Garden Soil (Low Biomass Soil)



RNA was extracted from High (200 mg), Medium (250 mg), and Low (500 mg) Biomass Soils using the SPINeasy® RNA Kit for Soil and competitors Q and M. Yield was measured with the QuantiFluor® RNA System (Promega). Purity (A260/280 and A260/230 ratios) was checked with a spectrophotometer. RNA quality (virtual gel image and RIN, shown in yellow or red) was assessed using the Agilent Tapestation 4150.

Order Information

Product Name	Size	Catalogue No.
SPINeasy® RNA Kit for Soil	50 preps	116585050
	5 preps	116585000

SPINeasy® DNA/RNA Kit for Soil



Proprietary inhibitor removal technology

to eliminate humic acids, heavy metals, and aromatic compounds for pure DNA and RNA

Selective binding innovation

to enable simultaneous isolation of genomic DNA and RNA from challenging soils

Suitable

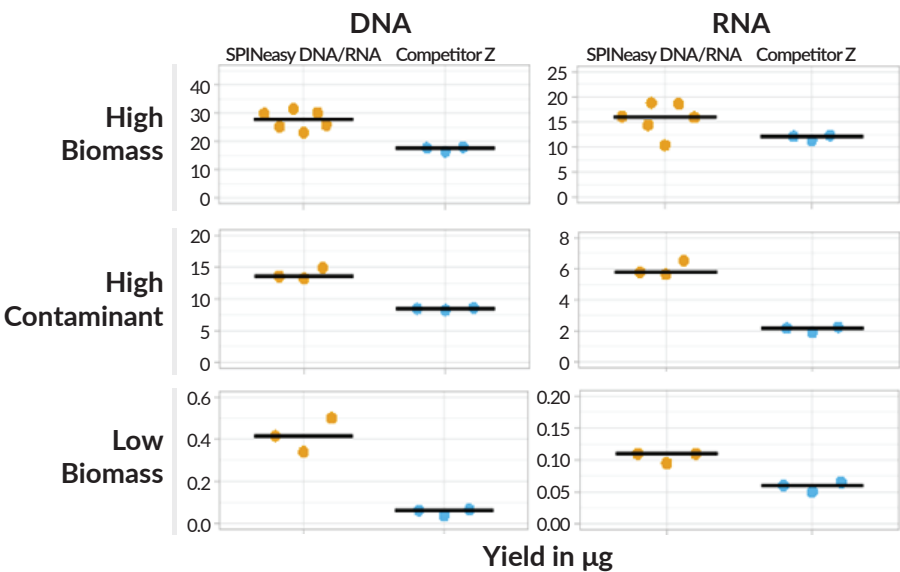
for diverse soil types, including low-biomass and highly contaminated samples

Fast and efficient protocol

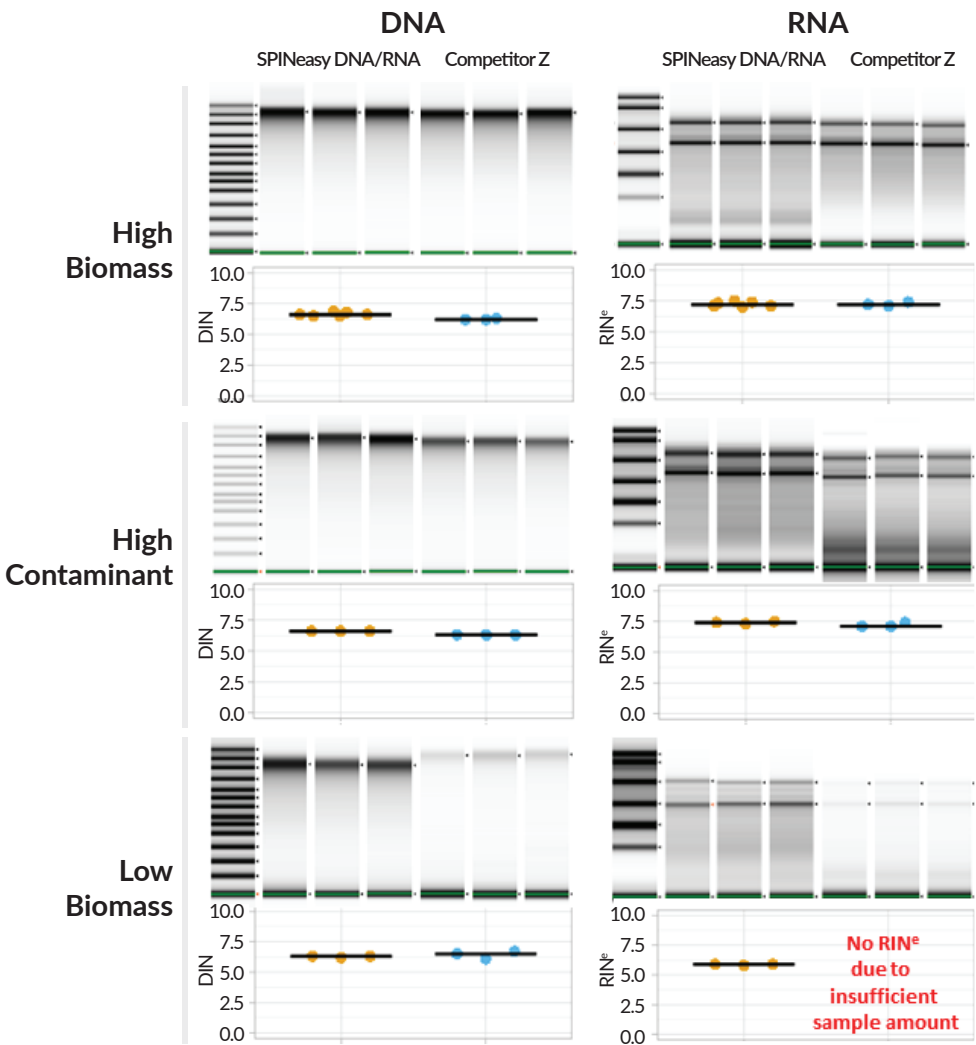
to complete extraction of up to 50µg DNA and 30µg RNA

Humic acids, heavy metals, and other aromatic components are among the most notorious PCR inhibitors found in the soil, leading to false negative or underestimated results. Non-optimized nucleic acid extraction protocol often co-purify inhibitors. The **SPINeasy® DNA/RNA Kit for Soil** integrates our proprietary inhibitor removal expertise and our new technology for selective binding of DNA and RNA. The **SPINeasy® DNA/RNA Kit for Soil** allows simultaneous isolation of pure microbiome genomic DNA and RNA from challenging soil types, including those with low biomass or those that are highly contaminated. The isolated nucleic acid products showed no contaminants and were immediately ready for use in downstream applications, including qPCR and RT-qPCR without the need of further inhibitor removal step.

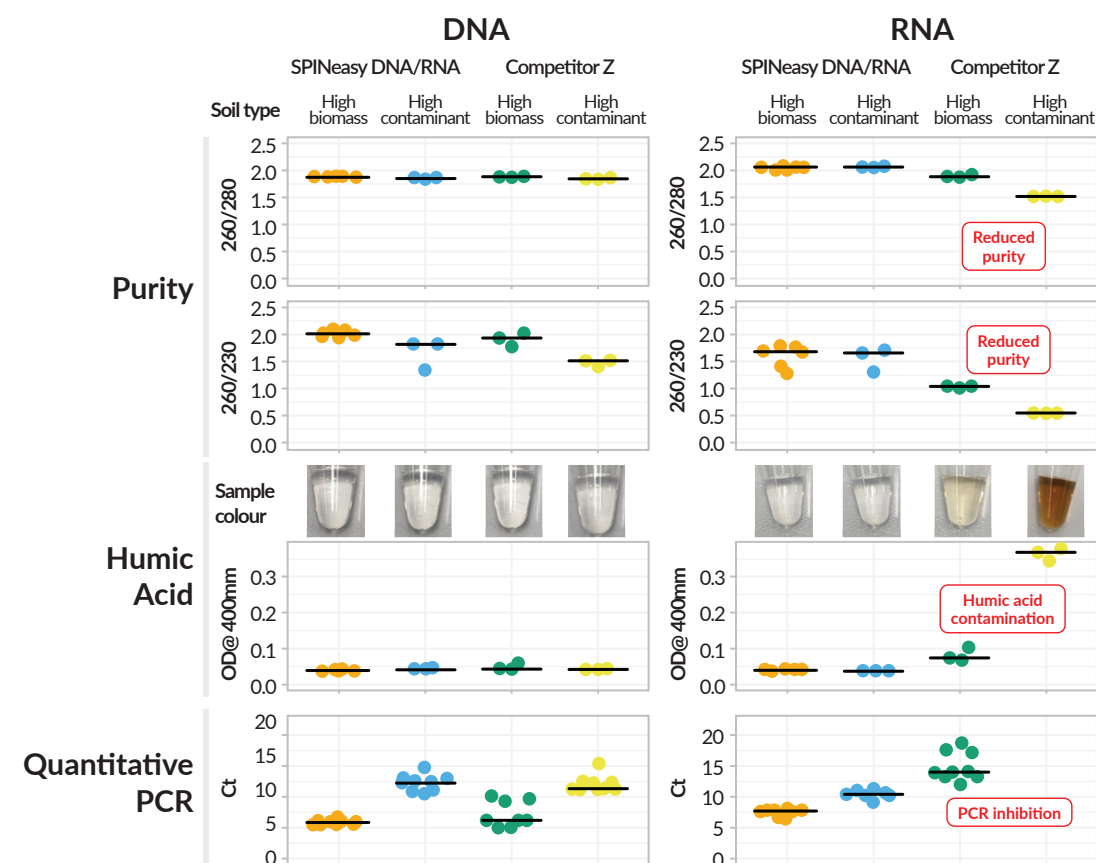
Product Performance



The SPINeasy® DNA/RNA Kit for Soil outperforms Competitor Z in nucleic acid yield. DNA and RNA were extracted from three soil types (250 mg each). Yields were measured by fluorometry, with each dot showing one extraction.



The SPINeasy® DNA/RNA Kit for Soil extracts high-quality DNA and RNA from tough soil types, including high-biomass, high-contaminant, and low-biomass samples. Virtual gels from Agilent 4150 TapeStation show DNA integrity (DIN) and RNA integrity (RIN) values. Each dot represents one sample.



Top Panel: Purity shown by A260/A280 and A260/A230 ratios.

Middle Panel: Images of DNA and RNA outputs; brownish color indicates humic acid, confirmed by spectrophotometer at 400 nm.

Bottom Panel: No inhibitors detected, proven by qPCR and RT-qPCR amplifying 1 µL undiluted sample with bacterial 16S primers.

Order Information

Product Name	Size	Catalogue No.
SPINeasy® DNA/RNA Kit for Soil	50 preps	116554050
	5 preps	116554000

SPINeasy® DNA Pro Kit for Feces



Newly formulated buffers
to achieve better yield and purity of fecal DNA

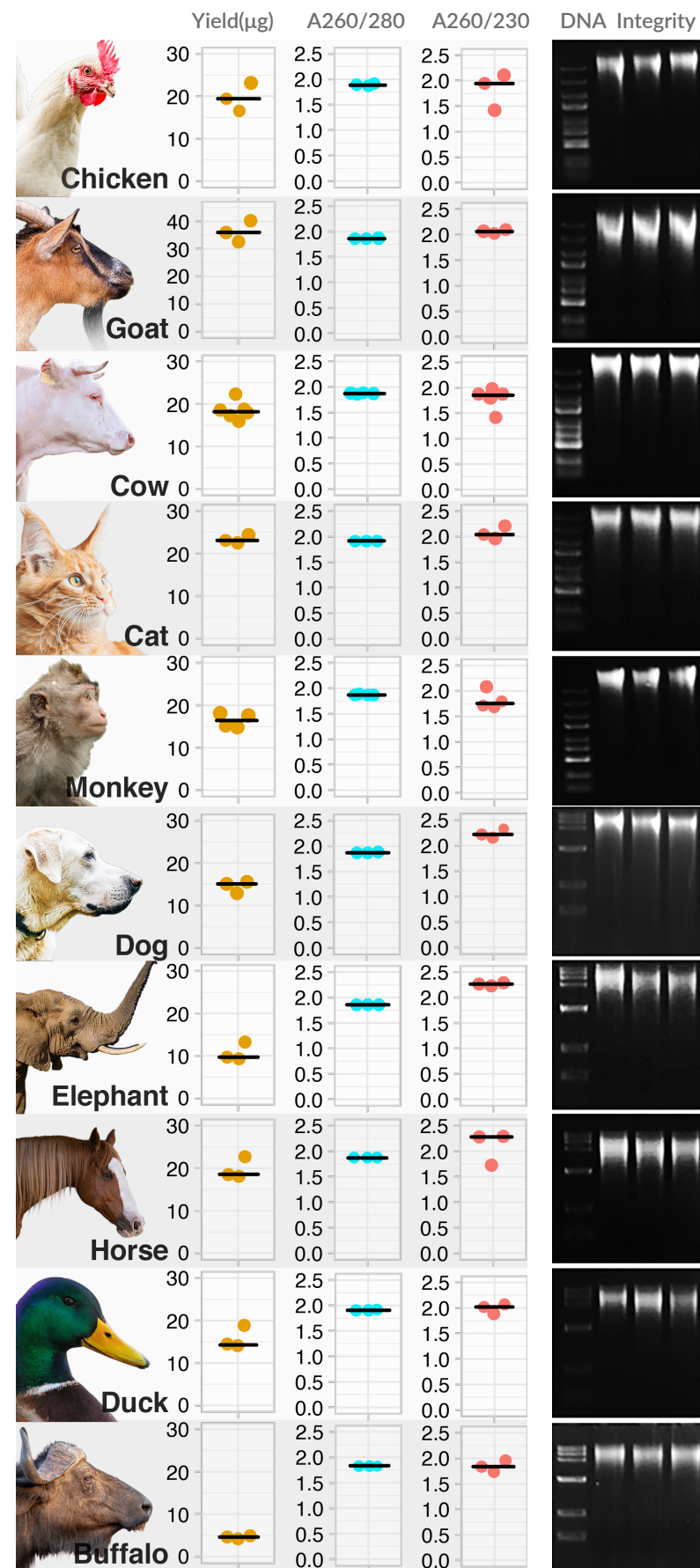
Easy to handle
and minimize any risk of contamination

Suitable
for various types of feces samples

User friendly
suitable for any scale of experimental throughput

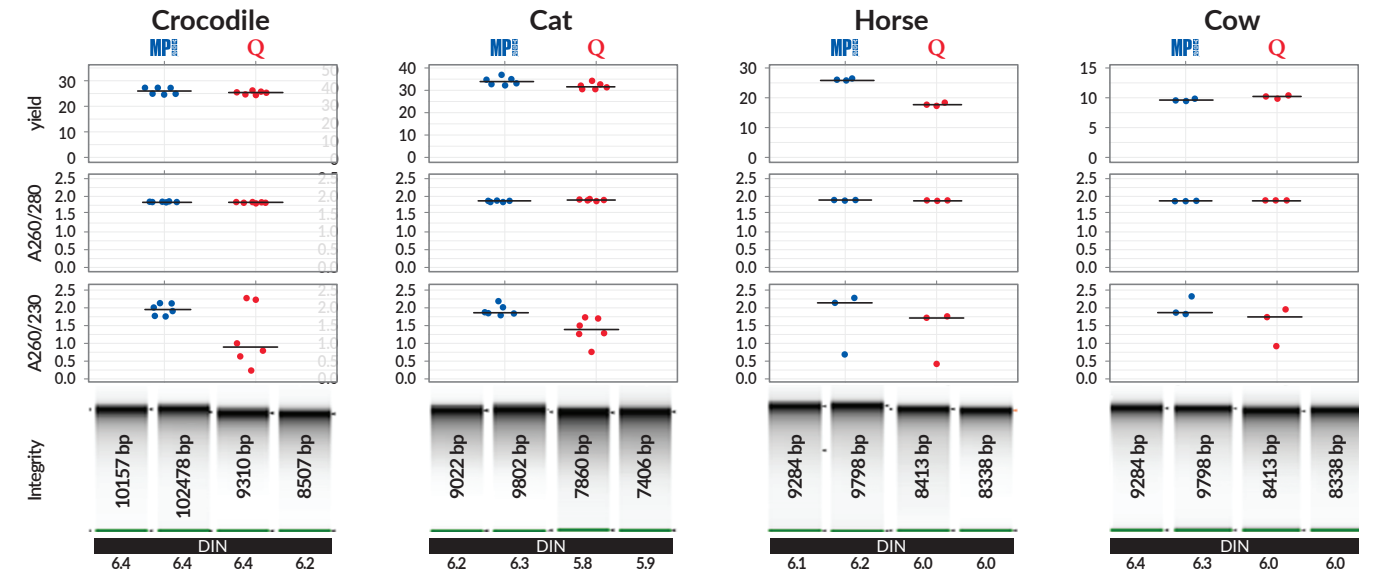
DNA extracted from fecal samples has just been made easier with our newly updated **SPINeasy® DNA Pro Kit for Feces**. Challenges that we may face from fecal samples are simply eliminated through the kit by bead beating with the new Lysing Matrix YB and lysis Buffer SF1. Subsequent treatment with Buffer SF2 effectively removes humic acid and other contaminants. The chemistry included in Buffer SF3 enables the specific binding of DNA without co-purification of RNA, eliminating the need for RNase A treatment. DNA obtained from fecal samples showed no inhibition in PCR and was immediately ready-to-be used for downstream applications, including long fragment PCR, qPCR, and next-generation sequencing (16S and whole genome) without the need for a further inhibitor removal step.

Extraction Results for Feces



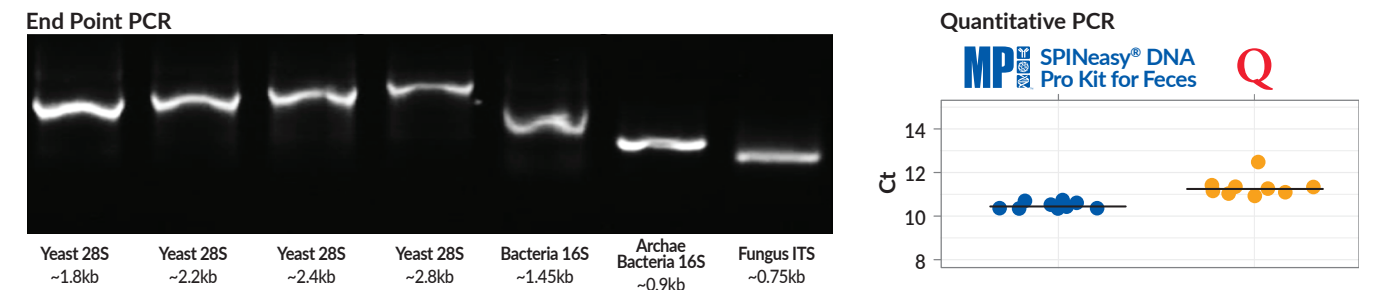
The SPINeasy® DNA Pro Kit for Feces provides high-quality DNA from various fecal samples.

Comparison versus competitor Q



The DNA extracted using SPINeasy® DNA Pro Kit for Feces or competitor Q kits were compared in terms of yield, purity (A260/280 and A260/230 ratios), and integrity. Representative virtual gels obtained from Agilent 4150 TapeStation analyses showed the DNA integrity value (DIN) and the size of the genomic DNA band in bp.

Amplifiability



The absence of inhibitor in fecal samples obtained using SPINeasy® DNA Pro Kit for Feces was assessed using inhibitor-sensitive PCR and undiluted sample as well as quantitative PCR.

Order Information

Product Name	Size	Catalogue No.
SPINeasy® DNA Pro Kit for Feces	50 preps	116547050
	5 preps	116547000

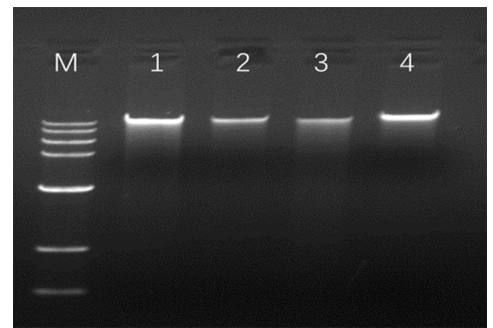
SPINeasy® DNA Kit for Water



- Significantly improve the purity of extracted DNA
- Rapid lysis of microorganisms yields high concentrations of pure DNA
- Suitable for various types of water samples
- Safe extraction process does not require phenol, chloroform or other toxic reagents

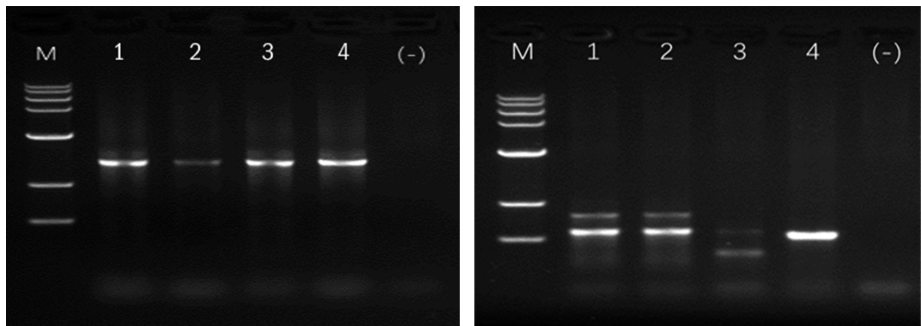
SPINeasy® DNA Kit for Water is specially designed to achieve quick isolation of genomic DNA from various types of water. This kit employs silica-membrane spin-column technology to effectively bind DNA. The resulting high-quality DNA can be used for downstream analyses. The kit is supplied with 5 mL lysing matrix and a sterile 0.22 µm filter membrane.

Product Performance



Lane M: DNA ladder
Lane 1: 100 mL river water
Lane 2: 165 mL pond water
Lane 3: 1000 mL sea water
Lane 4: 15 mL sewage

gDNA extracted from different types of water samples using SPINeasy® DNA Kit for Water, analyzed using 1 % agarose gel, and electrophoresed at 70 V for 30 min



Lane M: DNA ladder
Lane 1: River Water
Lane 2: Pond Water
Lane 3: Sea Water
Lane 4: Sewage
Lane (-): Negative Control

16S- PCR (left) & ITS-PCR (right) amplification of gene from different types of water samples using SPINeasy® DNA Kit for Water

Samples	Sample Volume _(mL)	Yield _(ng/µL sample)	A _(260/280)	A _(260/230)
River Water	100	46.22	1.88	1.90
Pond Water	165	19.85	1.86	2.32
Sea Water	1000	28.39	1.92	2.00
Sewage	15	120.32	1.83	1.65

Order Information

Product Name	Size	Catalogue No.
SPINeasy® DNA Kit for Water	50 preps	116536050
	5 preps	116536000



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