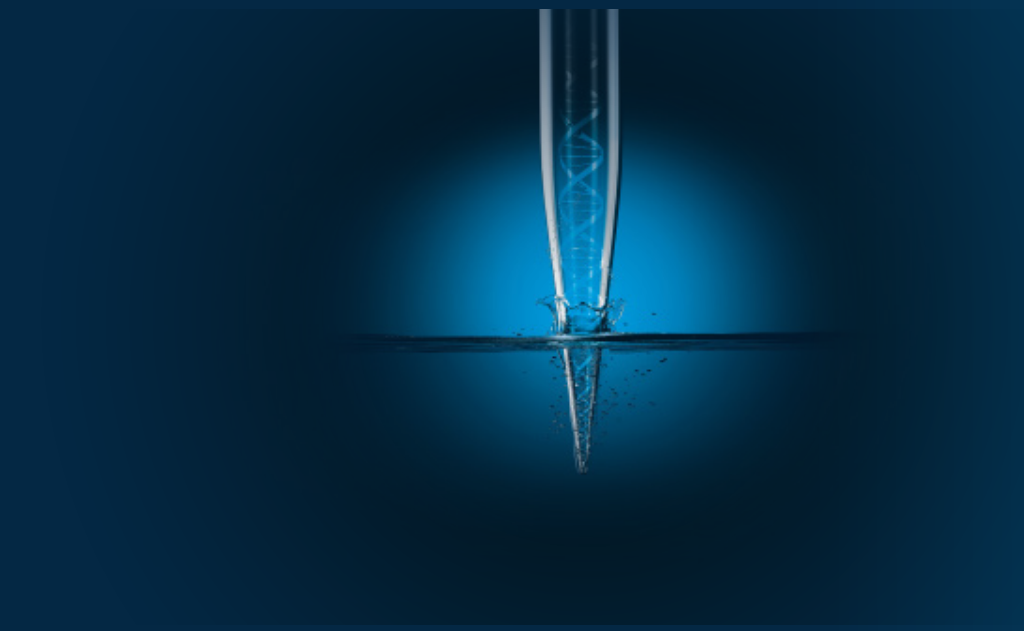
Innuscreen GmbH

Solutions

for Nucleic Acid Extraction



Content Overview

IST Innuscreen, a Life Science company founded in 2005, was acquired by Innovative Sensor Technology IST AG in 2020 and is located in Berlin.

Renamed IST Innuscreen, the ISO EN13485 certified company owns a broad product portfolio for nucleic acid isolation and molecular diagnostics.

The business fields are based on a variety of unique technology platforms for isolation and purification of nucleic acids, extraction of high molecular weight DNA for NGS-applications as well as the enrichment of biomolecules like cell-free DNA and RNA, viruses or subcellular particles.

These platforms are protected by 38 patents and patent applications. IST Innuscreen-products are the lifeline of any lab which is involved in low and high-volume nucleic acid extraction or detection and are renowned for their efficiency and testing accuracy.

Various methods of Nucleic Acid Extraction

The product portfolio is completed by a wide choice of patented extraction chemistry: spin filter-based as well as magnetic particle-based isolation of DNA and/or RNA.

Other innovative approaches meet any other needs you have, like SmartExtraction for extra easy automation, Polymer Mediated Enrichment for the efficient recovery of free-circulating DNA, and a lot more enabling technologies.

- Easy isolation of DNA/RNA from all samples
- High yields from different starting materials
- Highest sensitivity and reproducibility
- Time-saving procedures
- Convenient handling
- Minimized use of hazardous chemicals for risk-free working procedures
- Successful downstream applications

Technology Overview

How to choose the right extraction method

A short technology overview

Nucleic acid extraction is not only a question of choosing the right extraction kit, it is also challenging to find the ideal technology or platform first.

All IST Innuscreen extraction kits are ready-to-use and based on patented technologies with all their advantages:

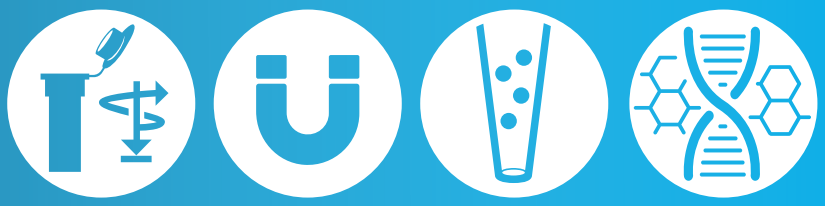
- Combination of chaotropic and antichaotropic Dual-Chemistry-Technology (DC-Technology)
- Flexible adaptation to different types of starting material
- Low salt and low ionic strength promote activity and the stability of enzymes
- A perfect combination of stringent lysis and unique binding buffer system

Spin Filter

Magnetic Beads

Smart Modified Surface

Polymer Mediated Enrichment



	Spin Filter	MAG Beads	SmartExtraction	Enrichment
Brand	innuPREP blackPREP innuSPEED	innuPREP - IPC16 innuPREP - KFml innuPREP - KFFLX innuPREP - FX	smart prep (a) smart prep (m) smart prep (a96)	PME
Level of automation	Manual	Automated or manual solutions	Automated or manual solutions	Automated or manual solutions
Device Compatibility	-	InnuPure C16 *touch* CyBio FeliX King Fisher Flex Other 1 mL pipetting systems	InnuPure C16 *touch* CyBio FeliX King Fisher Flex Other 1 mL pipetting systems	InnuPure C16 *touch*
Process	Binding of nucleic acids to solid Spin Filter Membranes processed by centrifugation	Separation of nucleic acids by magnetic particles processed by pipetting heads or plungers	Binding of nucleic acids to unique Smart Modified Surfaces processed by simple pipetting heads or plungers	Efficient recovery of minor DNA components, e.g. free-circulating DNA, small DNA fragments or pathogen DNA/RNA
Throughput	Low throughput	Medium to high throughput	Medium to high throughput	Low to medium throughput
Time	Ø 20 to 40 min per sample	Ø 40 to 90 min per run (1- 96 samples)	Ø 20 to 80 min per run (8 - 96 samples)	Ø 40 to 60 min per sample (1 - 16 samples)

Spin filter-based DC-Technology

It's Chemistry

Our well established nucleic acid extraction was and is the patented Dual-Chemistry-(DC-) Technology. This means the DNA/RNA isolation kits of IST Innuscreen are not only different from competitors' products but differ in substance: sophisticated chemistry!

The heart of DC-Technology is the highly efficient binding of DNA to solid phases without a high salt concentration. Instead a combination of chaotropic and non-chaotropic salts with low ionic strength is used, enabling the development of optimized lysis and new binding buffers.

"Faster. More efficient - just better!"

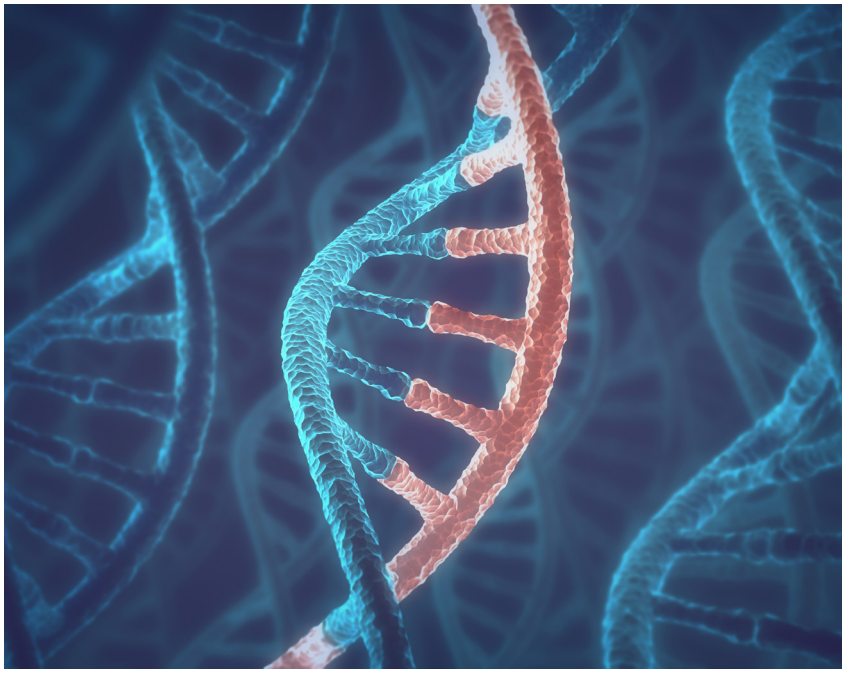
DC-Technology enables high performance by using Spin Filters for manual nucleic acid extraction. In regards to hardware nothing changes for the users and work organization:

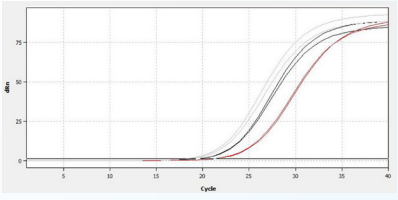
While routines stay the same, preparation time decreases and improvements in quality are noticable. This applies even more, the more complex the starting materials are.

Do you need to use multiple tools for one task?

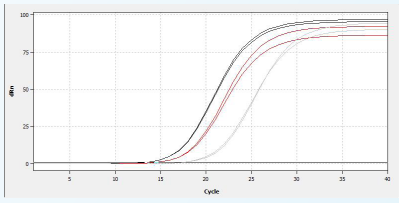
Discover the clever setup of IST Innuscreen's kits. Thanks to DC-Technology, processes such as plant DNA/RNA isolation can easily be optimized with up to three different lysis buffers.

The demand for flexible and versatile ready-to-use kits is increasing. The fast, easy and secure handling of DC-Technology perfectly meets all these requirements.

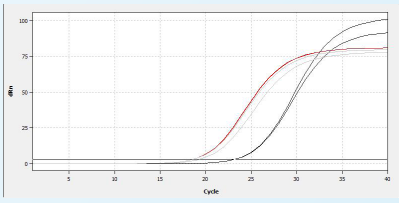




A: Oil palm leaf



B: Papaya leaf



C: Black bean seed

Depending on the starting material, the three lysis buffer system of the innuPREP Plant DNA Kit simplifies and speeds up the extraction process. The real-time plots show the influence of lysis on the final amplification results.

Black: Lysis Buffer CBV
Red: Lysis Buffer OPT
Grey: Lysis Buffer SLS

Magnetic particle-based extraction

An optimal Solution for every Application

DC-Technology is also suitable for proven magnetic particle separation, with the same outstanding advantages as described for manual Spin Filter nucleic acid extraction.

A variety of different nucleic acid extraction kits are available for the InnuPure C16 touch, CyBio FeliX and King Fisher® devices, guaranteeing excellent results with high purity and yield. This ensures immediate readiness for subsequent applications, as the final product is free of proteins, nucleases and other contaminants.

"The perfect fit"

All instruments make sure that time is saved significantly and manual interventions are reduced to an absolute minimum. The extraction automats perform all pipetting and mixing steps included in the routine.

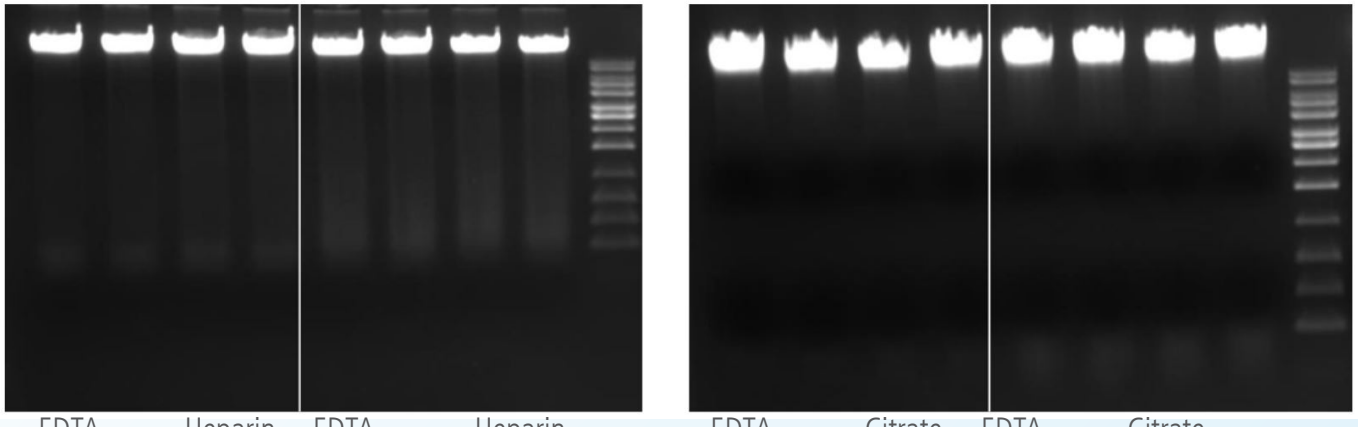
Best functionality

No two whole blood samples are the same. This makes nucleic acid isolation quite a challenge, especially when it comes to automated solutions. Cell numbers and conditions such as coagulation will vary dramatically.

The CyBio FeliX as well as the InnuPure C16 *touch* are high-grade pipetting systems optimized to efficiently isolate DNA from whole blood samples.

Both pre-filled, sealed reagent plastics in case of InnuPure C16 *touch* and pre-filling routines by CyBio FeliX reduce manual steps to a minimum. After sample loading the routine for automated nucleic acid extraction can be started via pre-defined protocols.

Genomic DNA from 200 µL of blood stabilized with EDTA, heparin or citrate was extracted automatically. Independent on the used platform – innuPREP Blood DNA Mini Kit-IPC16 on InnuPure C16 *touch* for medium throughput or innuPREP Blood DNA Mini Kit-FX on CyBio FeliX for high throughput applications – the yield and quality of DNA eluates are equal and comparable.



Device	Sample type	Sample volume	260/280	260/230	Yield [µg]
InnuPure C16 *touch*	EDTA	200 µL	1.82	2.20	8.1
	Heparin	200 µL	1.82	2.41	7.7
CyBio FeliX	EDTA	200 µL	1.82	2.15	7.9
	Heparin	200 µL	1.81	2.19	7.5
InnuPure C16 *touch*	EDTA	200 µL	1.78	2.20	5.2
	Citrate	200 µL	1.80	2.42	4.6
CyBio FeliX	EDTA	200 µL	1.78	2.06	6.0
	Citrate	200 µL	1.80	2.12	5.7

Smart Extraction

We Change the Way to Prep

SmartExtraction significantly accelerates and considerably simplifies the entire extraction procedure. Most notably, the technology accommodates the trend towards maximum process automation.

To provide users with maximum freedom when selecting materials, SmartExtraction was designed to be platform independent. The technology can be used with Analytik Jena's pipetting system InnuPure C16 *touch* and CyBio FeliX or Thermo Fisher's extraction system KingFisher Flex, and is simple to adapt for use with any liquid handling system[1]. The required laboratory equipment is reduced to a thermal shaker and a magnetic rack for manual applications.

In addition to simplifying procedures, Smart Extraction is also superior to other technologies in terms of yield, DNA quality, and efficiency criteria:

Thanks to high binding capacities, large amounts of high-molecular weight DNA can be extracted with the appropriate starting materials. Compared with magnetic particle technology used in conjunction with automated pipetting extraction systems, the new technology significantly increases the amount of extracted nucleic acids in many applications, while substantially reducing the processing steps required.

"It's not just Optimization - it's a Quantum Leap!"

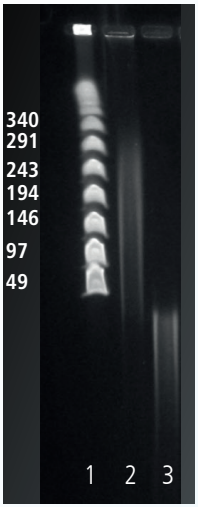
DC-TECHNOLOGY MEETS SMART SURFACES

- No phenol/chloroform
- No ion exchanger
- No silica materials or spin filter columns
- No silica or magnetic particle suspensions

[1] Pipetting systems with 1 mL pipetting heads

Focused on downstream applications:

Extracting high molecular weight DNA SmartExtraction completely eliminates the need for centrifugation, vortexing, and other stress factors for nucleic acid. With a minimal risk of shearing the DNA, fragments of up to 500 kbp can be isolated.



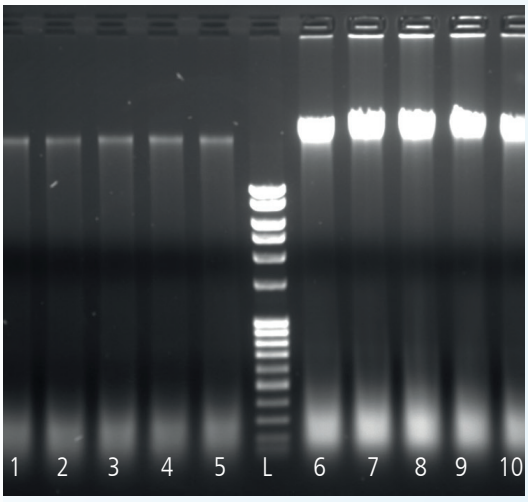
A comparison between manual nucleic acid extraction using an anion exchanger and SmartExtraction with the InnuPure C16. The Rotaphor system (PFGE – pulsed field gel electrophoresis) was used to determine the molecular weight of isolated DNA.

Lane 1: DNA ladder (48.5 kbp to 727.5 kbp)
Lane 2: E. coli DNA after isolation via SmartExtraction with the InnuPure C16
Lane 3: E. coli DNA following anion exchange isolation

Sample	A260:A280	A260:A230	Concentration [ng/µL]
Smart Extraction	1.99	1.77	283.77
Anion exchanger	1.97	2.26	117.00

Without peer: high yield meets ideal quality

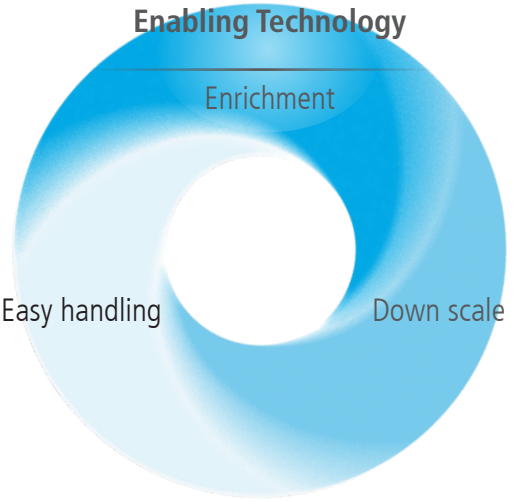
The innovatively modified surfaces ("Smart Modified Surfaces") used in SmartExtraction represent a unique solid phase that optimally separates nucleic acids from other cell components. Behavior and conditions during extraction are ideally suited for binding nucleic acids without the clumping that can appear when using magnetic particles. Finally, the highly efficient routine also results in fantastic yields and top quality when eluting nucleic acids.



No.	Method	A260:A280	A260:A230	Conc. [ng/µL]	Yield [µg]
1	MAG beads	1.97	2.30.	124	24.8
2	MAG beads	1.98	2.43	124	24.8
3	MAG beads	2.00	2.42	127	24.8
4	MAG beads	2.02	2.42	115	25.4
5	MAG beads	2.00	2.45	132	23.0
6	SmartExtraction	1.97	1.98	258	51.6
7	SmartExtraction	1.97	2.11	298	59.6
8	SmartExtraction	1.96	1.96	321	64.2
9	SmartExtraction	1.96	2.15	350	70.0
10	SmartExtraction	1.95	2.06	321	64.2

A comparison between DNA isolation based on magnetic particle separation and on SmartExtraction. Tissue samples of 80 mg chicken meat each were used. In contrast to the magnetic particle isolation, the yield of DNA more than doubles when using SmartExtraction while simultaneously cutting prep time in half. Lane 1–5: DNA after isolation from 80 mg chicken meat samples via magnetic particles; Lane L: DNA ladder (100-5000 bp); Lane 6–10: DNA after isolation from 80 mg chicken meat samples via SmartExtraction.

PME-
Polymer-Mediated Enrichment



New and innovative technologies are needed as additional options to standard methods for isolating nucleic acids. New fields of application are especially in need of innovation. IST Innuscreen's product line for enrichment contains unique patented methods that serve as a solution to challenging special requirements.

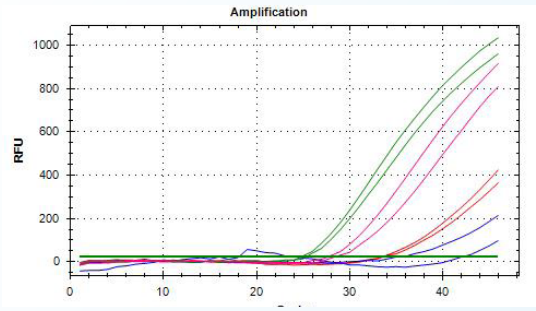
Targeting free-circulating DNA or RNA in elevated sample volumes or complex matrices is a challenging task requiring innovative technology. New approaches for enriching nucleic acids are needed when it comes down to ensure reliable downstream results. Polymer-mediated enrichment (PME) quickly and efficiently captures nucleic acid in a large volume of up to 10 mL of starting material. The polymer/DNA complex is then collected through centrifugation and isolated using either spin filters or magnetic particles, depending on whether the setup is manual or automated.

- Enriches and extracts free-circulating DNA and RNA or small amounts of DNA
- Works with up to 10 mL of starting material
- Uses an extremely easy-to-handle and time-saving procedure, approx.. 30 min
- Offers both a manual version based on spin filter-based extraction and automated routines by InnuPure C16 *touch*

Ideal preparation of challenging samples

The determination of pork DNA in gelatin is a challenge for any nucleic acid isolation method because industrial gelatin production destroys and removes the majority of the DNA.

The unique PME technology allows a fast and effective enrichment of residual DNA for sensitive downstream applications.



A: Amplification plots

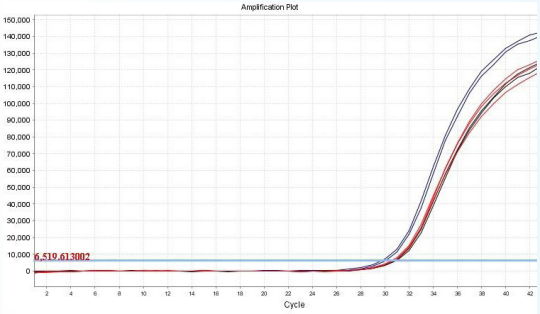
One gummy bear was dissolved in 3 mL PBS (1x). Depending on the extraction routine and method, different volumes of the solution were used to isolate the DNA from the gelatin. A pork DNA–specific, real-time amplification was carried out to determine the yield of extracted DNA.

Plot	Extraction	Sample	Kit	Ct value
Green	PME	3 mL	PME Food Kit	25.42
Green	PME	3 mL	PME Food Kit	24.88
Pink	PME	1 mL	PME Food Kit	27.73
Pink	PME	1 mL	PME Food Kit	28.56
Red	MAG beads	400 µL	innuPREP Food DNA Kit - IPC16	33.63
Red	MAG beads	400 µL	innuPREP Food DNA Kit - IPC16	33.70
Blue	Spin filter	200 µL	innuPREP DNA Mini Kit	35.98
Blue	Spin filter	200 µL	innuPREP DNA Mini Kit	42.29

B: Determination of CT values

High starting volumes and improved sensitivity

In addition to plasma and serum, urine samples can also be processed using the PME free-circulating DNA Extraction Kit. A starting volume of up to 10 mL is used, ensuring that the final concentration of cell-free DNA will be sufficient for detection carried out in further applications.

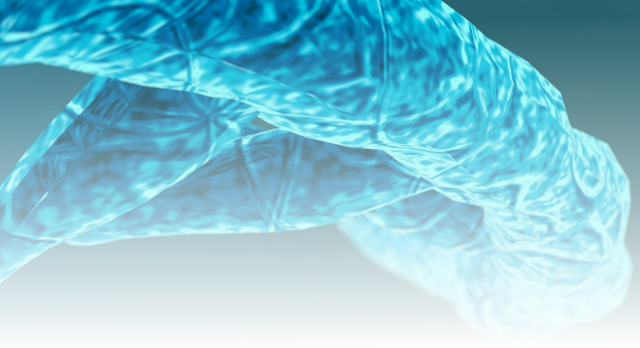


Free-circulating DNA from human urine samples of 5 and 10 mL was extracted using the PME Free-Circulating DNA Extraction Kit. Subsequently, the cell-free DNA was tested and compared with DNA that had been extracted from a 4 mL urine sample subjected to a competing extraction kit for free-circulating nucleic acids (market leader). Real-Time PCR was used by amplifying a humanspecific coding gene. The blue and black graphs correspond to extraction from the 10 mL sample and from the 5 mL sample with the PME technology. The red graphs correspond to the 4 mL sample applied to the competitor's product.

The advantages of our kit are clearly visible in the higher starting volume, resulting in lower Ct-values for a more sensitive target detection.

RNA

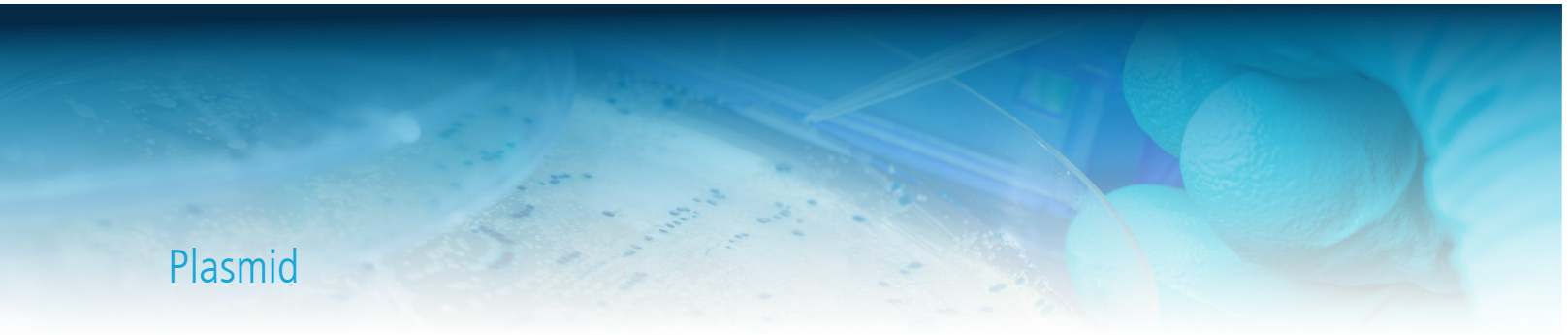
	Manual	Automated
Bacteria	innuPREP Micro RNA Kit innuPREP DNA/RNA Mini Kit innuPREP RNA Mini Kit 2.0 innuSOLV RNA Reagent	
Blood	innuPREP Blood RNA Kit	innuPREP AniPath DNA/RNA Kit -KFFLX innuPREP AniPath DNA/RNA Kit-FX
Cell culture supernatant	innuPREP Virus DNA/RNA Kit innuPREP MP Basic Kit A	innuPREP Virus DNA/RNA Kit-IPC16 innuPREP RNA Virus Kit - KFml innuPREP Virus DNA/RNA Kit - KFml innuPREP Virus RNA PLUS Kit - KFFLX innuPREP DNA/RNA Virus PLUS Kit -KFFLX innuPREP AniPath DNA/RNA Kit - KFFLX innuPREP AniPath DNA/RNA Kit - FX innuPREP Virus DNA/RNA Kit - FX
Cell-free body fluids	innuPREP Virus DNA/RNA Kit innuPREP MP Basic Kit A	innuPREP Virus DNA/RNA Kit - IPC16 innuPREP Virus RNA Kit - KFml innuPREP Virus DNA/RNA Kit - KFml innuPREP RNA Virus PLUS Kit - KFFLX innuPREP AniPath DNA/RNA Kit - KFFLX innuPREP AniPath DNA/RNA Kit - FX innuPREP Virus DNA/RNA Kit - FX
Cerebro-spinal fluid	innuPREP Virus DNA/RNA Kit innuPREP MP Basic Kit A	innuPREP Virus DNA/RNA Kit - IPC16 innuPREP Virus RNA Kit - KFml innuPREP Virus DNA/RNA Kit -KFml innuPREP RNA Virus PLUS Kit - KFFLX innuPREP AniPath DNA/RNA Kit - KFFLX innuPREP AniPath DNA/RNA Kit - FX innuPREP Virus DNA/RNA Kit - FX
Eukaryotic cells	innuPREP Micro RNA Kit innuPREP DNA/RNA Mini Kit innuPREP RNA Mini Kit 2.0 innuSOLV RNA Reagent	innuPREP RNA Kit IPC16
Exosomes	PME Exosome Enrichment Kit innuPREP cell-free microRNA Kit	



	Manual	Automated
FFPE/ Paraffin samples	innuPREP FFPE total RNA Kit innuPREP Virus DNA/RNA Kit	
Plant material	innuPREP Plant RNA Kit	
Saliva	innuPREP MP Basic Kit A	
Stool samples	innuPREP MP Basic Kit A	innuPREP Virus DNA/RNA Kit - IPC16 innuPREP Virus RNA Kit - KFml innuPREP RNA Virus PLUS Kit - KFFLX ininnuPREP Virus DNA/RNA Kit - Fml innuPREP AniPath DNA/RNA Kit - KFFLX innuPREP AniPath DNA/RNA Kit-FX innuPREP Virus DNA/RNA Kit-FX
Swabs	innuPREP Virus DNA/RNA Kit innuPREP Virus TS RNA Kit innuPREP MP Basic Kit A	innuPREP Virus DNA/RNA Kit - IPC16 innuPREP Virus RNA Kit - KFml innuPREP Virus DNA/RNA Kit - KFml innuPREP RNA Virus PLUS Kit - KFFLX innuPREP AniPath DNA/RNA Kit - KFFLX innuPREP AniPath DNA/RNA Kit-FX innuPREP Virus DNA/RNA Kit-FX innuPREP Virus TS RNA Kit 2.0-FX
Ticks	blackPREP Tick DNA/RNA Kit	
Tissue/Biopsies	innuPREP Micro RNA Kit innuPREP DNA/RNA Mini Kit innuPREP RNA Mini Kit 2.0 innuPREP Virus RNA Kit innuPREP Virus DNA/RNA Kit innuPREP MP Basic Kit A innuSOLV RNA Reagent	innuPREP RNA Kit - IPC16 innuPREP Virus RNA Kit - KFml innuPREP Virus DNA/RNA Kit - KFml innuPREP RNA Virus PLUS Kit - KFFLX innuPREP AniPath DNA/RNA Kit - KFFLX

RNA

	Manual	Automated
Viruses	innuPREP Virus DNA/RNA Kit innuPREP MP Basic Kit A	innuPREP Virus DNA/RNA Kit - IPC16 innuPREP Virus RNA Kit - KFml innuPREP Virus DNA/RNA Kit - KFml innuPREP RNA Virus PLUS Kit - KFFLX innuPREP AniPath DNA/RNA Kit - KFFLX innuPREP AniPath DNA/RNA Kit - FX innuPREP Virus DNA/RNA Kit - FX
Waste water	innuPREP Sewage Water DNA/RNA Kit	innuPREP AniPath DNA/RNA Kit - IPC16
Yeast cells	innuSOLV RNA Reagent	

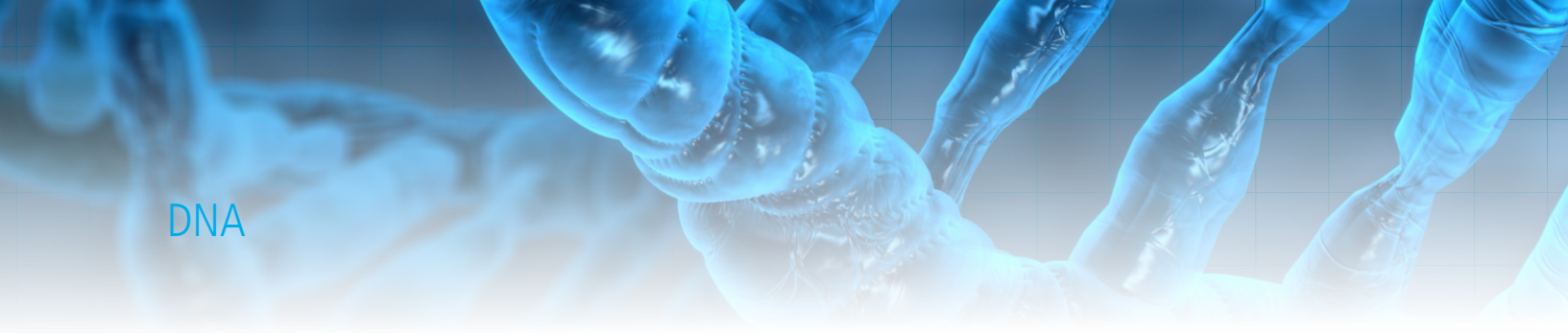


Plasmid

	Manual	Automated
Bacterial suspension	innuPREP Plasmid Mini Kit 2.0	

DNA

	Manual	Automated
Agarose gels	innuPREP DOUBLEpure Kit	
Bacteria	innuPREP Bacteria DNA Kit innuPREP DNA/RNA Mini Kit	innuPREP Bacteria DNA Kit - IPC16 innuPREP AniPath DNA/RNA Kit - KFFLX innuPREP AniPath DNA/RNA Kit - IPC16 innuPREP AniPath DNA/RNA Kit - FX
	smart DNA prep (m)	smart DNA prep (a) smart DNA prep (a96)-FX
Blood	innuPREP DNA Micro Kit innuPREP Blood DNA Mini Kit innuPREP DNA Mini Kit 2.0 innuPREP Forensic Kit	innuPREP Blood DNA Mini Kit - IPC16 innuPREP Forensic DNA Kit - IPC16 innuPREP Blood DNA Kit - KFFLX innuPREP AniPath DNA/RNA Kit - KFFLX innuPREP Blood DNA Mini Kit-FX
	smart Blood DNA Midi prep (m)	smart Blood DNA Midi prep (a) smart Blood DNA Midi direct prep (a) smart Blood DNA Midi prep (a96) - FX smart Blood DNA Midi direct prep (a96) - FX
Cell culture supernatant	innuPREP Virus DNA/RNA Kit	innuPREP Virus DNA/RNA Kit - IPC16 innuPREP Virus DNA/RNA Kit - KFml innuPREP DNA/RNA Virus PLUS Kit - KFFLX innuPREP AniPath DNA/RNA Kit - KFFLX innuPREP AniPath DNA/RNA Kit-FX innuPREP Virus DNA/RNA Kit-FX
	innuPREP MP Basic Kit A	
	PME free-circulating DNA Extraction Kit	PME free-circulating DNA Extraction Kit - IPC16
Cerebro spinal fluid	innuPREP Virus DNA/RNA Kit	innuPREP Virus DNA/RNA Kit - IPC16 innuPREP Virus DNA/RNA Kit - KFml innuPREP DNA/RNA Virus PLUS Kit - KFFLX innuPREP AniPath DNA/RNA Kit - KFFLX innuPREP AniPath DNA/RNA Kit-FX innuPREP Virus DNA/RNA Kit-FX
	innuPREP MP Basic Kit A	
Cell-free body fluids	innuPREP Virus DNA/RNA Kit	innuPREP Virus DNA/RNA Kit - IPC16 innuPREP Virus DNA/RNA Kit - KFml innuPREP DNA/RNA Virus PLUS Kit - KFFLX innuPREP AniPath DNA/RNA Kit - KFFLX innuPREP AniPath DNA/RNA Kit - FX innuPREP Virus DNA/RNA Kit -FX
	innuPREP MP Basic Kit A	
	PME free-circulating DNA Extraction Kit	PME free-circulating DNA Extraction Kit - IPC16

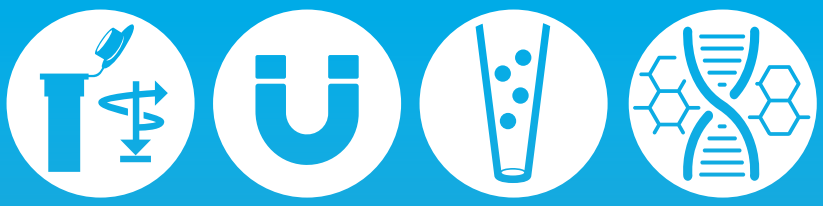


DNA

	Manual	Automated
Eukaryotic cells	innuPREP DNA Micro Kit innuPREP DNA Mini Kit 2.0	innuPREP DNA Kit - IPC16 smart DNA prep (a)
FFPE/Paraffin Samples	blackPREP FFPE DNA Kit innuPREP DNA Mini Kit 2.0 innuPREP Virus DNA/RNA Kit	innuPREP FFPE DNA Kit - IPC16 innuPREP FFPE DNA Kit - FX
Food/Food after cultivation	PME Food DNA Kit PME Food DNA Enrichment Tool	innuPREP Food DNA Kit - IPC16 innuPREP Food I DNA Kit - FX
Forensic Material	inuuPREP Forensic Kit	innuPREP Forensic DNA Kit - IPC16
Fruit/Mood Samples	innuPREP Plant DNA Kit	innuPREP Plant DNA I/II Kit - IPC16 innuPREP Plant DNA Kit - FX
Fungi (fruiting body)	innuPREP Plant DNA Kit	innuPREP RPlant DNA | Kit- IP C16 innuPREP Plant DNA Kit - FX
Myco-Plasma	innuPREP DNA Mini Kit 2.0 innuPREP Bacteria DNA Kit	
PCR Reactions	innuPREP DOUBLEpure Kit innuPREP PCRpure Kit	
Plant Material	innuPREP Plant DNA Kit	innuPREP Plant DNA I/II Kit - IPC16 innuPREP Plant DNA Kit - FX
Saliva	innuPREP Forensic Kit innuPREP MP Basic Kit A	innuPREP Forensic DNA Kit - IPC16 innuPREP Plant DNA Kit - FX
Seed	innuPREP Plant DNA Kit	innuPREP Plant DNA I/II Kit - IPC16 innuPREP Plant DNA Kit - FX
Soil samples	innuSPEED Soil DNA Kit	
Stool Samples	innuPREP Stool DNA Kit innuPREP MP Basic Kit A	innuPREP Virus DNA/RNA Kit - IPC16 innuPREP Anipath DNA/RNA Kit - KFFLX innuPREP Anipath DNA/RNA Kit - IPC16 innuPREP Anipath DNA/RNA Kit - FX innuPREP Virus DNA/RNA Kit - FX

DNA

	Manual	Automated
Swabs	innuPREP Virus TS RNA Kit innuPREP DNA Mini Kit 2.0 innuPREP Forensic Kit innuPREP Virus DNA/RNA Kit innuPREP MP Basic Kit	innuPREP Forensic DNA Kit - IPC16 innuPREP Virus DNA/RNA Kit - IPC16 innuPREP Virus DNA/RNA Kit - KFml innuPREP AniPath DNA/RNA Kit - KFFLX innuPREP AniPath DNA/RNA Kit - FX innuPREP Virus DNA/RNA Kit - FX innuPREP Virus TS RNA Kit 2.0 - FX
Ticks	blackPREP Tick DNA/RNA Kit	
Tissue/Biopsy	innuPREP DNA Micro Kit innuPREP DNA Mini Kit 2.0 innuPREP Forensic Kit blackPREP Rodent Tail DNA Kit innuPREP DNA/RNA Mini Kit innuPREP Virus DNA/RNA Kit innuPREP MP Basic Kit A smart DNA prep (m)	innuPREP DNA Kit - IPC16 innuPREP Forensic DNA Kit - IPC16 innuPREP Virus DNA/RNA Kit - KFml innuPREP AniPath DNA/RNA Kit - KFFLX smart DNA prep (a)
Urine/ Urine sediment	PME free-circulating DNA Extraction Kit	PME free-circulating DNA Extraction Kit - IPC16
Viruses	innuPREP Virus DNA/RNA Kit innuPREP MP Basic Kit A	innuPREP Plant DNA I/II Kit- IPC16 innuPREP Plant DNA Kit-FX innuPREP Virus DNA/RNA Kit - IPC16 innuPREP Virus DNA Kit - KFml innuPREP Virus DNA/RNA Kit - KFml innuPREP DNA/RNA Virus PLUS Kit - KFFLX innuPREP AniPath DNA/RNA Kit - KFFLX innuPREP AniPath DNA/RNA Kit - FX innuPREP Virus DNA/RNA Kit - FX innuPREP Virus TS RNA Kit 2.0 - FX
Waste Water	innuPREP Sewage Water DNA/ RNA Kit	
Yeast cells	innuPREP DNA Mini Kit 2.0	innuPREP Bacteria DNA Kit - IPC16 smart DNA prep (a)



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