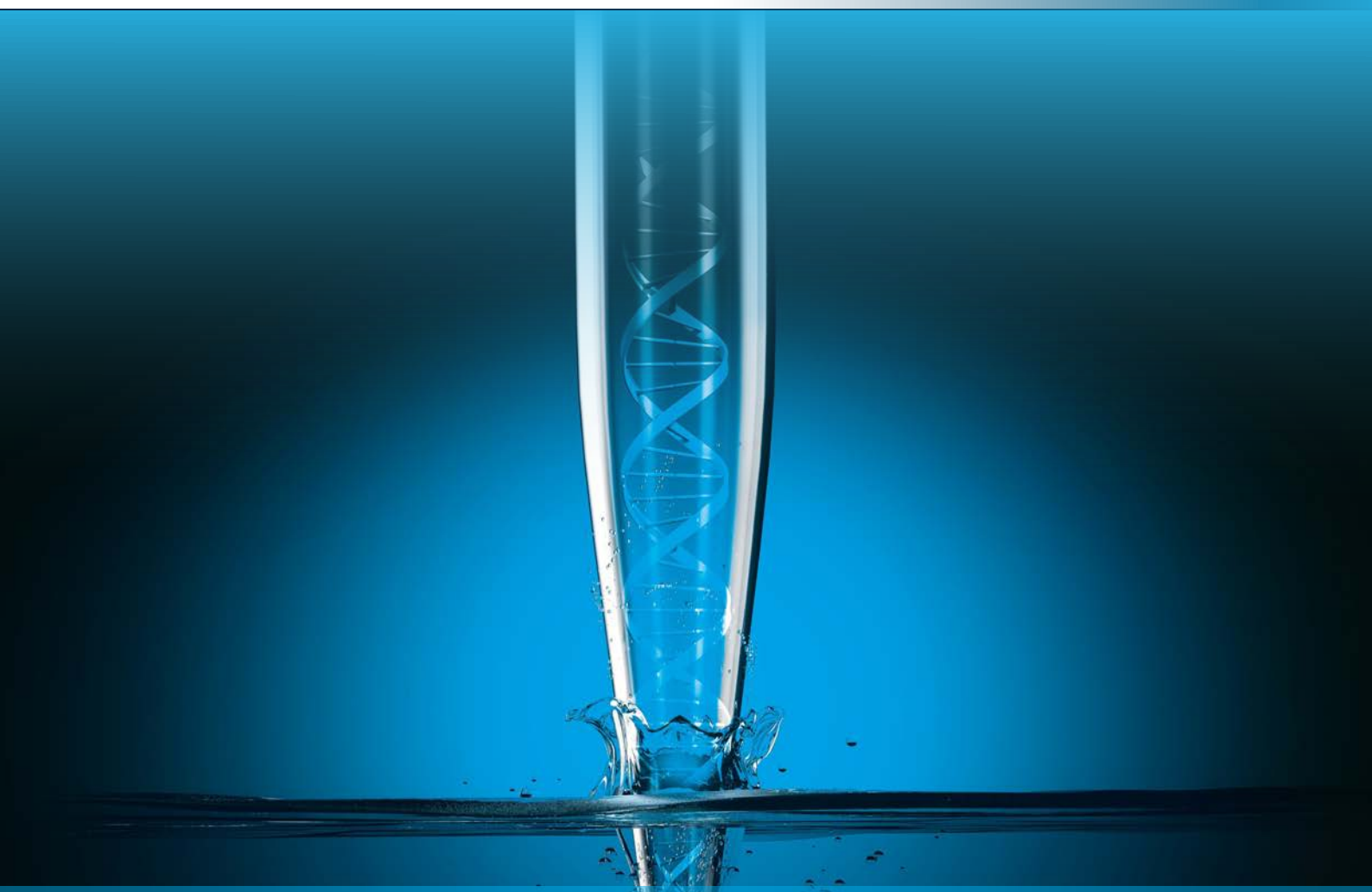
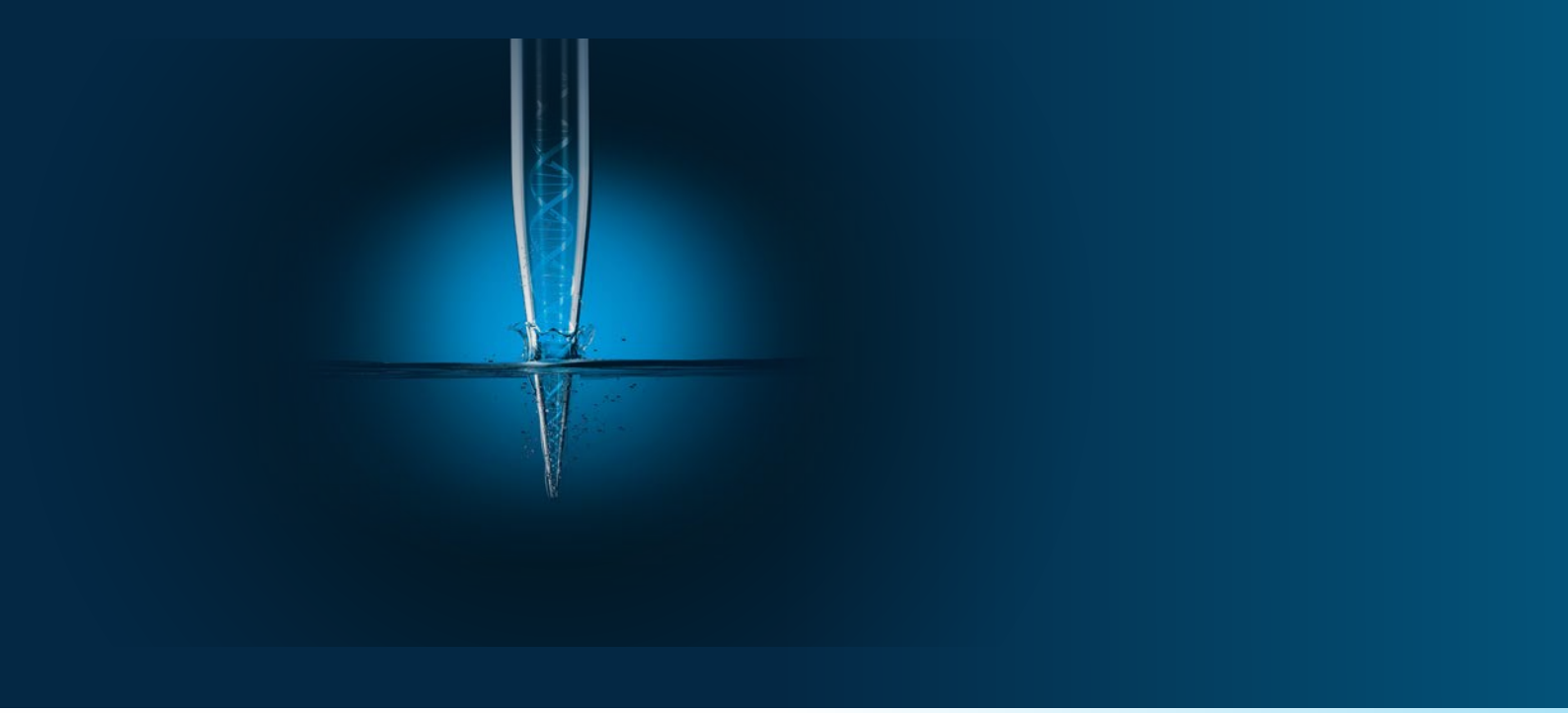
Innuscreen GmbH



Solutions

for Nucleic Acid Extraction



Content Overview

IST Innuscreen, a life science company founded as AJ Innuscreen in 2005 as part of Analytik Jena, 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's products are the foundation 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 comprises 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 more specific needs you have, like SmartExtraction for extra easy automation, Polymer Mediated Enrichment for the efficient recovery of free-circulating DNA, Target Concentration which allows biomolecules contained in liquid samples to be concentrated, and many 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

Target Concentration

	Spin Filter	MAG Beads	SmartExtraction	Enrichment
Brand	innuPREP blackPREP innuSPEED	innuPREP	smart prep innuPREP SE	PME TCT
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 PurePrep Product portfolio	InnuPure C16 *touch* CyBio FeliX King Fisher Flex PurePREP Product portfolio	InnuPure C16 *touch* PurePrep Product portfolio
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 biomolecules, e.g. free-circulating DNA, small DNA fragments or pathogen DNA/RNA, biomolecules
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 (1 - 96 samples)	Ø 40 to 60 min per sample (1 - 16 samples)

PurePrep Mini

The compact automated Nucleic Acid Extraction System

Save time and achieve high yields

The PurePrep Mini reduces hands-on time and increases productivity in lab research.

Automating the purification of nucleic acids saves a lot of time compared to tedious manual extraction.

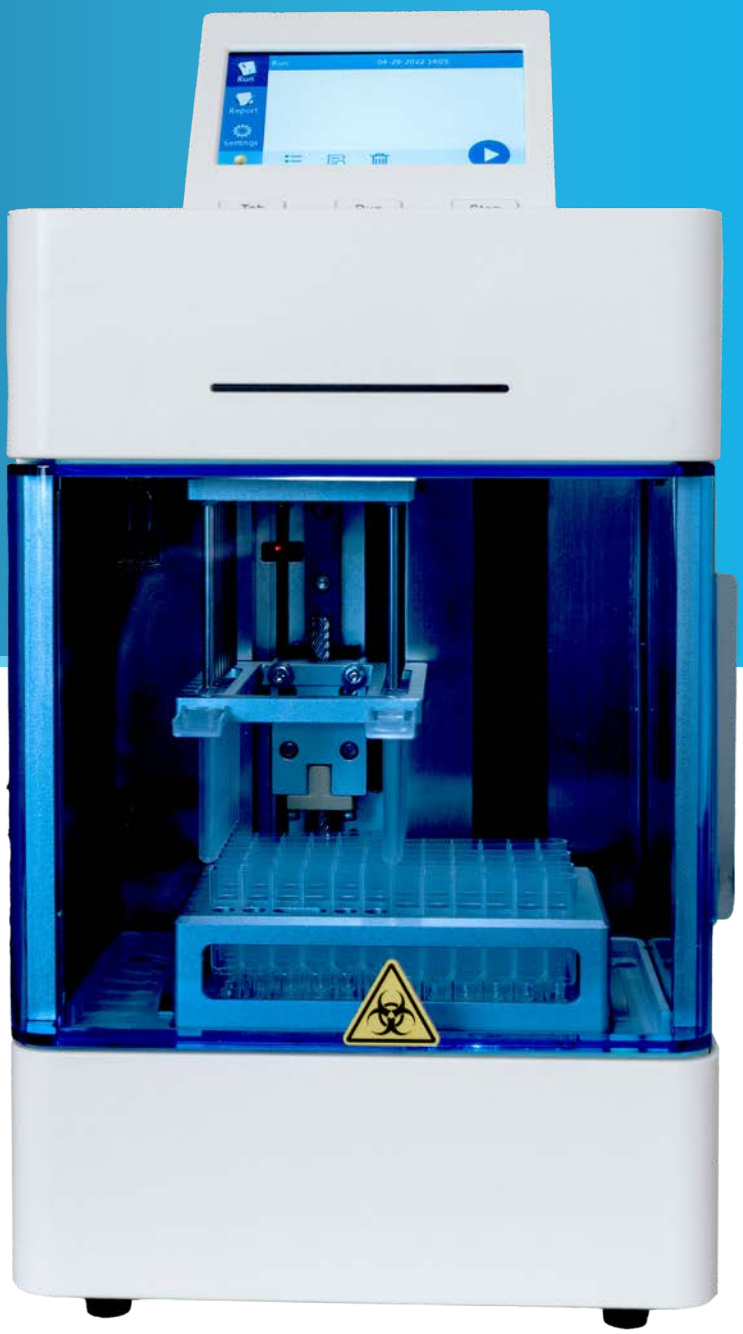
A must-have for small research environments, as its small size saves precious work space. A mobile app allows you to set up programs remotely.

By utilizing individual tube strips, the PurePrep Mini enables you to run single samples without wasting plastic consumables.

IST Innuscreen's innuPREP extraction kits are optimized for usage with the PurePrep extraction systems, allowing extraction from a wide range of sample types.

SPECIFICATIONS

Samples per run:	1-16
Working volume:	50 – 1.000 µL
Width:	200 mm
Depth:	260 mm
Height:	300 mm
Weight:	7 kg



"It's a must-have for small labs"

- Utilizes magnetic bead separation technology & also smart modified tip combs for non-magnetic extraction of HMW and UHMW DNA
- Ideal for small-scale laboratories
- Can process 1 to 16 samples simultaneously
- Fully editable programs trough mobile app* for optimal protocols
- Reduces plastic waste by utilizing tube strips
- UV lamp sterilization to avoid cross-contamination

*Mobile app required for operation, only available on Android

Spin filter-based DC-Technology

It's the 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!"

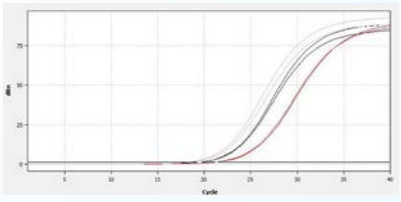
DC-Technology enables high performance by using Spin Filters for manual nucleic acid extraction. In regards to hardware nothing changes for the users and work organization:

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.

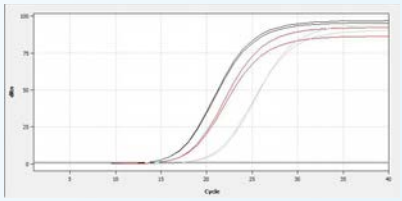
Do you need to use multiple tools for one task?

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.

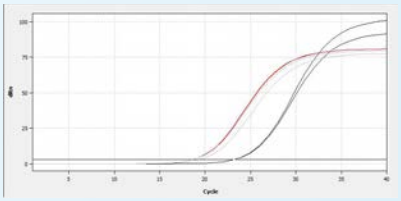
The demand for flexible and versatile ready-to-use kits is increasing. The fast, easy and secure handling of DC-Technology perfectly meets all these requirements.



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 established 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, King Fisher® devices and the PurePrep family, guaranteeing excellent results with high purity and yield. This ensures immediate availability 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.

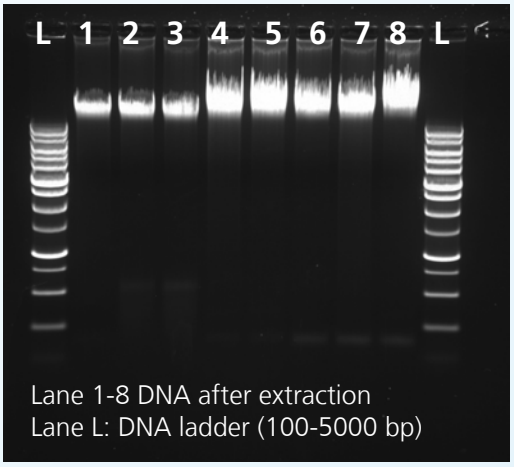
The PurePrep Mini is an extraction system which is optimized to efficiently isolate DNA from whole blood samples. After sample loading the routine for automated nucleic acid extraction can be started via pre-defined protocols.

8 individual blood samples, stored at -20°C for up to 3 years, were used to extract genomic DNA out of 200 µL of blood stabilized with EDTA using the innuPREP Blood DNA Kit- PP Mini.

The results present high yield and high quality integrity (DIN >9.8) of DNA eluates.

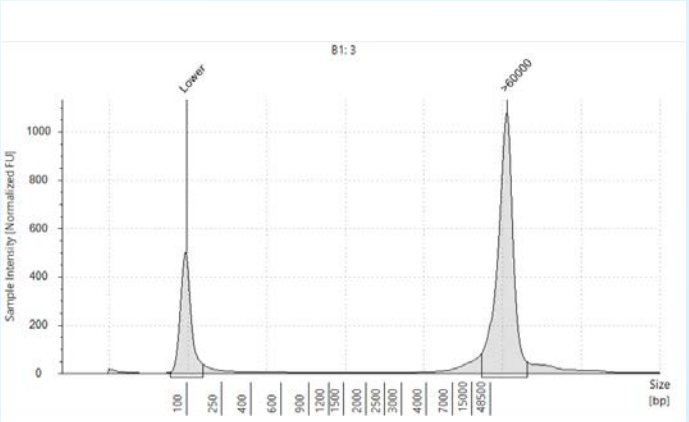
Sample	DNA concentration (ng/µl)	DNA yield (µg)	Ratio A260:280	Ratio A260:230
1	32	4.8	1.9	1.9
2	38	5.7	1.9	1.8
3	30	4.5	1.9	2.0
4	62	9.3	1.8	1.9
5	68	10.2	1.8	1.7
6	60	9	1.9	2.0
7	62	9.3	1.8	1.9
8	72	10.8	1.9	1.8

Spectrophotometric measurements determined with Implen NanoPhotometer. The DNA yield is very high and the ratios between 260/280 and 260/230 are excellent.



Lane 1-8 DNA after extraction
Lane L: DNA ladder (100-5000 bp)

Results of agarose gel electrophoresis showed a successful extraction of DNA using the PurePrep Mini system.



To determine the DNA quality, 1 µl DNA of sample 3 was used on Agilent 4150 TapeStation System (Agilent, gDNA Assay) The results indicate that majority of the DNA is longer than 60,000 bp and shows a high integrity. The DNA yield is very high and the ratios between 260/280 and 260/230 are excellent.

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 our own PurePrep family, 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. 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.

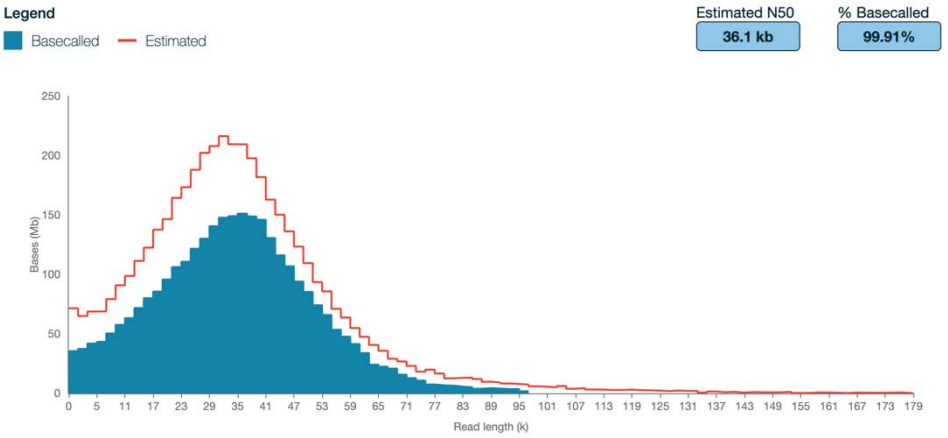
"It's not just Optimization - it's a Quantum Leap!"

DC-TECHNOLOGY MEETS SMART SURFACES

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

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 1000 kbp can be isolated.

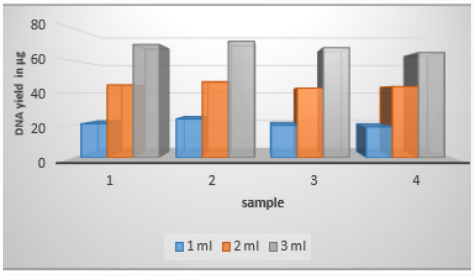


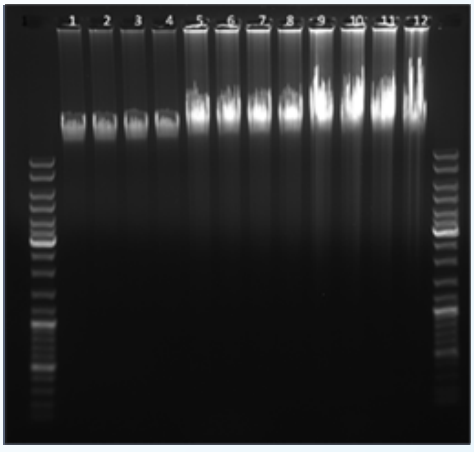
Data provided by Dr. Björn Brändl, Zentrum für Integrative Psychiatrie-ZiP gGmbH, Stem Cell Lab

Exraction of DNA from PBMC's out of 3ml fresh whole blood samples followed by the instruction of the innuPREP SE HMW DNA kit. The extracted DNA was sheared (1x) with a Megaruptor 3 instrument at speed 27.
The sheared DNA was size-selected using ONT's short fragment eliminator (SFE). Size-selected DNA was processed with ONT's Ligation sequencing kit (SQK-LSK114) and 1600ng of final library was loaded onto a R10.4.1 MinION flow cell.

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 nuc- leic 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.





A comparison of DNA yield after isolation with SmartExtraction:

DNA ladder left and right of the Lanes (100-5000 bp)

Lane	Whole blood Sample	Yield [µg]	A_{260}: A_{280}	A_{260}: A_{230}
1	1 ml	23.7	1.9	2.2
2	1 ml	21.2.	1.9	2.2
3	1 ml	20.4	1.9	2.2
4	1 ml	18.9	1.9	2.2
5	2 ml	45.0	1.9	2.3
6	2 ml	46.8	1.9	2.3
7	2 ml	42.9	1.9	2.3
8	2 ml	44.1	1.8	2.3
9	3 ml	64.8	1.9	2.3
10	3 ml	70.2	1.9	2.3
11	3 ml	68.4	1.9	2.3
12	3 ml	72.0	1.9	2.3

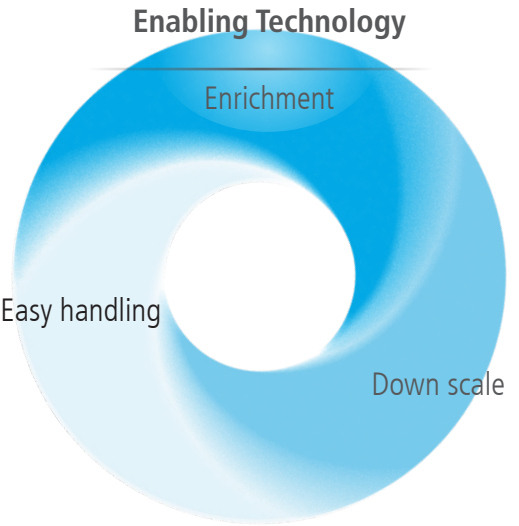
Enrichment

PME-
Polymer-Mediated Enrichment

New technologies are needed as additional options to standard methods for enrichment of biomolecules.

The subsequent extraction of nucleic acids from biomolecules such as cfDNA, viruses and subcellular particles etc. in large sample quantities or complex matrices is a challenging task that requires innovative technologies.

New approaches for enriching nucleic acids are needed when it comes down to ensure reliable downstream results.

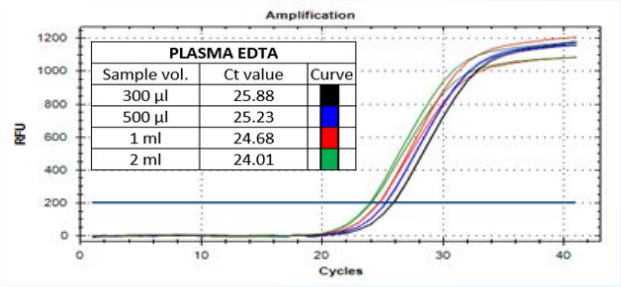


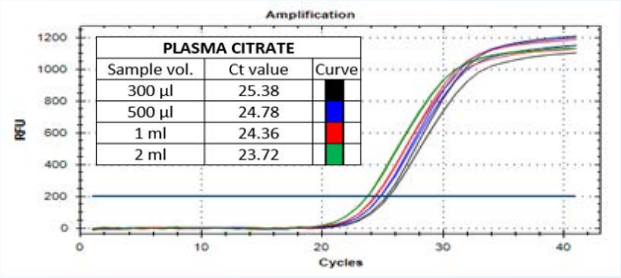
Polymer-mediated enrichment (PME) quickly and efficiently captures biomolecules in a large volume of up to 15 mL of starting material. The polymer/DNA complex is then collected through centrifugation.

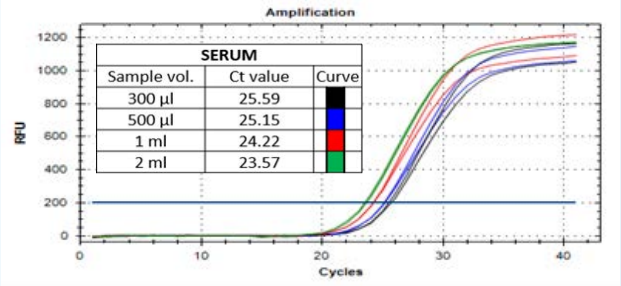
Extraction takes place using either spin filters or magnetic particles, depending on whether the setup is manual or automated.

- Enriches and extracts
- Works with up to 50 mL of starting material
- Uses an easy-to-handle and time-saving procedure, approx.. 30 min

Ideal preparation of challenging samples







From exosome enrichment to microRNA extraction:

Low concentrations, different targets, high sample volumes – that means different approaches for sample pre-treatment and sample preparation is needed.

Human blood from one donor was collected into serum or plasma citrat/EDTA monovette tubes.

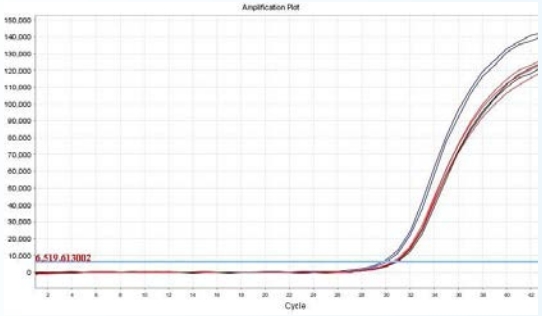
Using innuPREP PME Exosome Enrichment Kit exosomes were enriched and microRNA extracted with innuPREP cell-free microRNA Extraction Kit.

For the extraction increasing plasma (EDTA) and serum volumes are processed and amplified by our in-house RT-qPCR.

The Cq values derived from the real-time PCR are shown in the tables for miR-142. They show the yield depending on the sample input.

High starting volumes and improved sensitivity

In addition to plasma and serum, urine samples can also be processed using the innuPREP 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 innuPREP 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.

TCT

TCT-
Target Concentration Technology

Based on a novel and patent-pending technology that allows for biomolecules (cells, bacteria, viruses, bacteriophages, algae, free nucleic acids, proteins) contained in liquid samples to be concentrated preparing them for various analysis methods requiring small sample sizes.

TCT technology has many benefits:

- New, simple, fast and efficient method for target concentration
- Works with up to 1000 mL of starting material
- Patented technology for the concentration of biomolecules
- Allows large-volume samples to be processed
- Without centrifugation or filtration steps
- Combinable with:
  - Manual or automated DNA/RNA extraction
  - ELISA
  - Immunology, Flow Cytometry etc.

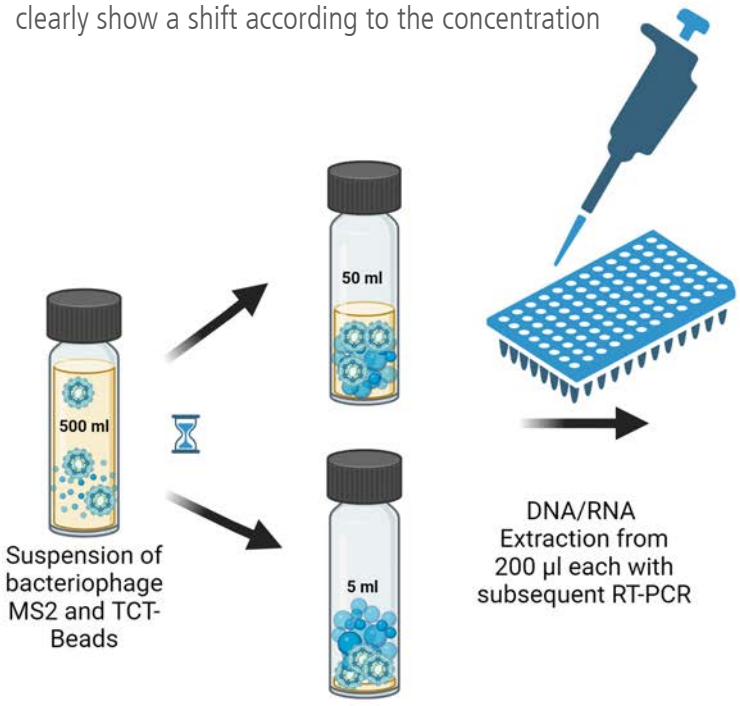
Workflow of target concentration method

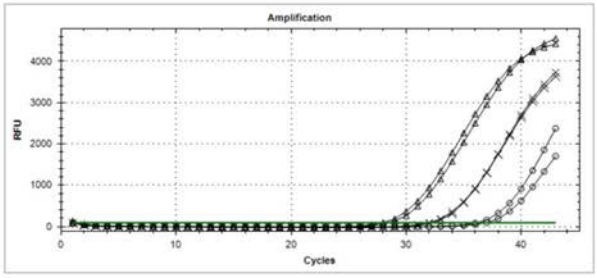
First, TCT beads were added to 500 ml suspension of bacteriophage MS-2 and incubated until the liquid volume was reduced to 50 ml and 5 ml, respectively.

The nucleic acids were extracted from 200 µl of each sample using the innuPREP AniPath DNA/RNA kit on the PurePrep Mini extraction device.

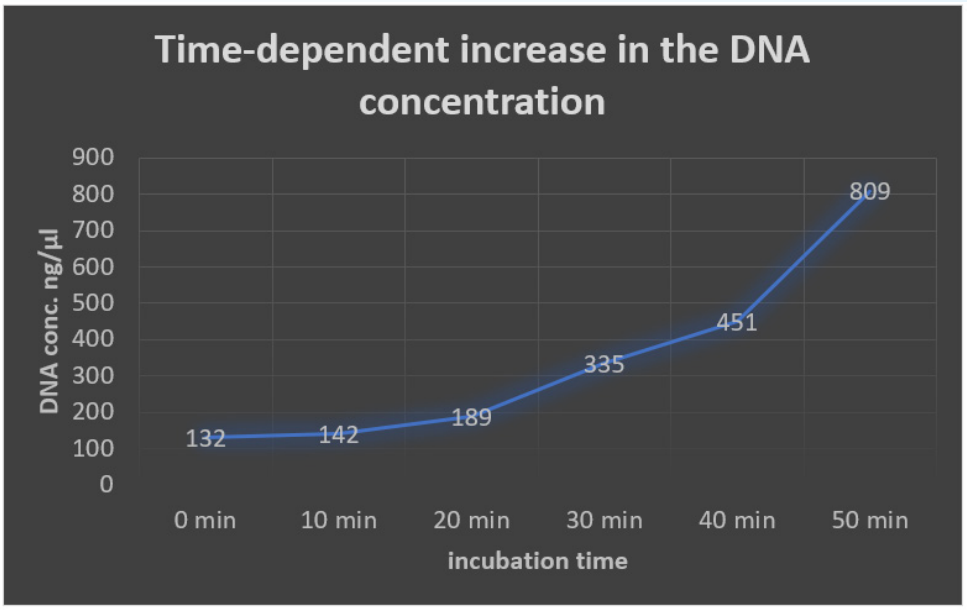
The resulting DNA was analyzed by qPCR. The ct values clearly show a shift according to the concentration factor, demonstrating the quantitative enrichment of bacteriophage MS-2. This way the process can also be carried out for the concentration and automated extraction from small to large numbers of samples.

The process is based on a new, patented technology for concentrating biomolecules, which also allows large-volume samples to be processed without centrifugation or filtration steps.





Sample	Symbol	Ct-Value	Concentration Factor
500 ml	O	35.93 / 36.73	Original
50 ml	/	31.72 / 32.07	10
5 ml	I>	28.23 / 27.68	100



Sample: 132 ng/µl lambda DNA in 200µl where concentrated with addition of TCT Beads to the sample and continuously measurement of DNA concentration (UV-Vis).

RNA

	Manual	Automated
Bacteria	innuPREP Micro RNA Kit innuPREP DNA/RNA Mini Kit innuPREP RNA Mini Kit 2.0 innuSOLV RNA Reagent	innuPREP RNA Kit- PP Mini
Blood	innuPREP Blood RNA Kit 2.0	innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA Kit- FX innuPREP AniPath DNA/RNA Kit- IPC16 innuPREP AniPath DNA/RNA Kit- PP Mini
Cell culture supernatant	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 - IPC16 innuPREP Virus RNA PLUS Kit- KFFLX innuPREP Virus DNA/RNA Kit- FX innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA Kit- FX innuPREP AniPath DNA/RNA Kit- IPC16 innuPREP AniPath DNA/RNA Kit- PP Mini
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 Virus DNA/RNA Kit- FX innuPREP RNA Virus PLUS Kit- KFFLX innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA Kit- FX innuPREP AniPath DNA/RNA Kit- IPC16 innuPREP AniPath DNA/RNA Kit- PP Mini
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 Virus DNA/RNA Kit- FX innuPREP RNA Virus PLUS Kit- KFFLX innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA Kit- FX innuPREP AniPath DNA/RNA Kit- IPC16 innuPREP AniPath DNA/RNA Kit- PP Mini
Eukaryotic cells	innuPREP Micro RNA Kit innuPREP DNA/RNA Mini Kit innuPREP RNA Mini Kit 2.0 innuSOLV RNA Reagent	innuPREP RNA Kit- IPC16 innuPREP RNA Kit- PP Mini
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 Virus DNA/RNA Kit- KFml innuPREP Virus DNA/RNA Kit- FX innuPREP RNA Virus PLUS Kit- KFFLX innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA- FX innuPREP AniPath DNA/RNA Kit- IPC16 innuPREP AniPath DNA/RNA- PP Mini
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 Virus DNA/RNA Kit- FX innuPREP Virus TS RNA Kit 2.0- FX innuPREP RNA Virus PLUS Kit- KFFLX innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA Kit- FX innuPREP AniPath DNA/RNA Kit- IPC16 innuPREP AniPath DNA/RNA Kit- PP Mini
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 DNA/RNA Kit innuPREP MP Basic Kit A innuSOLV RNA Reagent	innuPREP RNA Kit- PC16 innuPREP RNA Kit- PP Mini innuPREP Virus RNA Kit- KFml innuPREP Virus DNA/RNA Kit- KFml innuPREP RNA Virus PLUS Kit- KFFLX innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA- IPC16 innuPREP AniPath DNA/RNA Kit- PP Mini

RNA

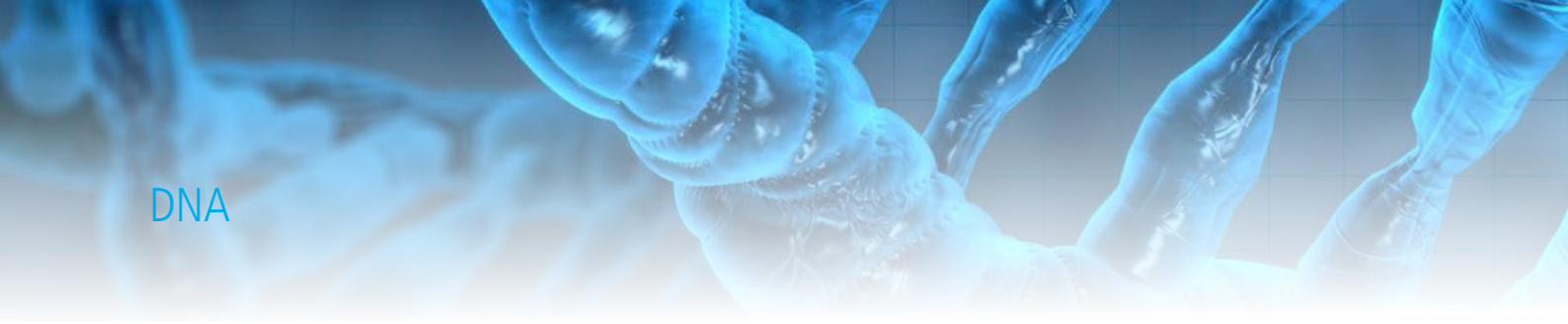
	Manual	Automated
Viruses	innuPREP Virus DNA/RNA Kit innuPREP MP Basic Kit A	innuPREP Virus DNA/RNA Kit- PC16 innuPREP Virus RNA Kit- KFml innuPREP Virus DNA/RNA Kit- KFml innuPREP RNA Virus PLUS Kit- KFFLX innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA Kit- FX innuPREP Virus DNA/RNA Kit- FX innuPREP AniPath DNA/RNA Kit- IPC16 innuPREP AniPath DNA/RNA Kit- PP Mini
Waste water	innuPREP Sewage Water DNA/ RNA Kit TCT Sewage Water Viral DNA/ RNA Kit	innuPREP AniPath DNA/RNA Kit- IPC16 innuPREP AniPath DNA/RNA Kit- PP Mini
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 DNA Mini Kit 2.0	innuPREP Bacteria DNA Kit- IPC16 innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA Kit- IPC16 innuPREP AniPath DNA/RNA Kit- FX
	innuPREP SE HMW DNA Kit (m)	smart DNA prep (a) smart DNA prep (a96)- FX innuPREP SE HMW DNA Kit- KFFLX innuPREP SE HMW DNA- PP Mini
Blood	innuPREP Blood DNA Mini Kit innuPREP DNA Mini Kit 2.0 innuPREP Forensic Kit	innuPREP Blood DNA Mini Kit- IPC16 innuPREP Blood DNA Kit- PP Mini innuPREP Blood DNA Mini Kit- FX innuPREP Blood DNA Kit- KFFLX innuPREP Forensic DNA Kit- IPC16 innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA Kit- PP Mini innuPREP Genomic DNA Kit- PP Mini
	innuPREP SE Blood&Eukaryotic Cells UHMW DNA Kit	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 innuPREP SE Blood&Eukaryotic Cells UHMW DNA Kit- KFFLX innuPREP SE Blood direct HMW DNA Kit- innuPREP KFFLX SE UHMW DNA Blood & Cells Kit- PP Mini
Cell culture supernatant	innuPREP Virus DNA/RNA Kit	innuPREP Virus DNA/RNA Kit- IPC16 innuPREP Virus DNA/RNA Kit- KFml innuPREP Virus DNA/RNA Kit- FX innuPREP DNA/RNA Virus PLUS Kit- KFFLX innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA Kit- FX innuPREP AniPath DNA/RNA Kit- PP Mini
	innuPREP MP Basic Kit A	
	PME free-circulating DNA Extraction Kit	PME free-circulating DNA Extraction Kit- IPC16 innuPREP PME cfDNA Kit- PP Mini
Cerebro spinal fluid	innuPREP Virus DNA/RNA Kit	innuPREP Virus DNA/RNA Kit- IPC16 innuPREP Virus DNA/RNA Kit- KFml innuPREP Virus DNA/RNA Kit- FX innuPREP DNA/RNA Virus PLUS Kit- KFFLX innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA Kit- FX innuPREP AniPath DNA/RNA Kit- PP Mini
	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 Virus DNA/RNA Kit- FX



DNA

	Manual	Automated
Cell-free body fluids	innuPREP MP Basic Kit A PME free-circulating DNA Extraction Kit innuPREP MP PME cfDNA Kit	innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA Kit- FX innuPREP AniPath DNA/RNA Kit- PP Mini PME free-circulating DNA Extraction Kit- IPC16
Eukaryotic cells	innuPREP DNA Mini Kit 2.0 innuPREP SE Blood&Eukaroytic Cells HMW DNA Kit (m)	innuPREP DNA Kit- IPC16 smart DNA prep (a) innuPREP SE Blood&Eukaryotic Cells UHMW DNA Kit- KFFLX innuPREP SE UHMW DNA Blood & Cells Kit- PP Mini
FFPE/Paraffin Samples	blackPREP FFPE DNA Kit	innuPREP FFPE DNA Kit- IPC 16 innuPREP FFPE DNA Kit- FX innuPREP FFPE DNA Kit- PP Mini
Food/Food after cultivation	PME Food DNA Kit PME Food DNA Enrichment Tool innuPREP TCT Beer Bacteria DNA Kit	innuPREP Food DNA Kit- IPC 16 innuPREP Food I DNA Kit- FX innuPREP TCT Beer Bacteria DNA Kit- PP Mini
Forensic Material	innuPREP Forensic Kit	innuPREP Forensic DNA Kit- IPC 16 innuPREP Forensic DNA Kit- PP Mini
Fruit/Mood Samples	innuPREP Plant DNA Kit	innuPREP Plant DNA I/II Kit- IPC 16 innuPREP Plant DNA Kit- FX
Fungi (fruiting body)	innuPREP Plant DNA Kit	innuPREP DNA | Kit- IPC 16 innuPREP Plant DNA Kit- FX innuPREP Plant DNA I/II Kit- IPC 16
Mycoplasma	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- IPC 16 innuPREP Plant DNA Kit- FX
Saliva	innuPREP Forensic Kit innuPREP MP Basic Kit A	innuPREP Forensic DNA Kit- IPC 16 innuPREP Plant DNA Kit- FX
Seed	innuPREP Plant DNA Kit	innuPREP Plant DNA I/II Kit- IPC 16 innuPREP Plant DNA Kit- FX
Soil samples	innuSPEED Soil DNA Kit	
Stool Samples	innuPREP Stool DNA Kit	innuPREP Virus DNA/RNA Kit- IPC 16 innuPREP Virus DNA/RNA Kit- FX innuPREP Anipath DNA/RNA Kit 2.0- KFFLX innuPREP Anipath DNA/RNA Kit- IPC16

DNA

	Manual	Automated
Stool	innuPREP MP Basic Kit A	innuPREP Anipath DNA/RNA Kit- FX innuPREP AniPath DNA/RNA Kit- PP Mini innuPREP Genomic DNA Kit- PP Mini
Swabs	innuPREP Virus TS RNA Kit innuPREP Virus DNA/RNA Kit innuPREP DNA Mini Kit 2.0 innuPREP Forensic Kit innuPREP MP Basic Kit	innuPREP Forensic DNA Kit- IPC16 innuPREP Virus DNA/RNA Kit- IPC 16 innuPREP Virus DNA/RNA Kit- KFml innuPREP Virus DNA/RNA Kit- FX innuPREP Virus TS RNA Kit 2.0- FX innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP AniPath DNA/RNA Kit- FX innuPREP AniPath DNA/RNA Kit- PP Mini innuPREP Genomic DNA Kit- PP Mini
Ticks	blackPREP Tick DNA/RNA Kit	
Tissue/Biopsy	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 innuPREP SE HMW DNA Kit (m)	innuPREP DNA Kit- IPC16 innuPREP Forensic DNA Kit- IPC 16 innuPREP Virus DNA/RNA Kit- KFml innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP Genomic DNA Kit- PP Mini innuPREP AniPath DNA/RNA Kit- PP Mini smart DNA prep (a) innuPREP SE HMW DNA Kit- KFFLX innuPREP SE HMW DNA- PP Mini
Urine/ Urine sediment	PME free-circulating DNA Extraction Kit innuPREP MP PME cfDNA Kit	PME free-circulating DNA Extraction Kit- IPC 16 innuPREP PME cfDNA Kit- PP Mini
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- IPC 16 innuPREP Virus DNA Kit- KFml innuPREP Virus DNA/RNA Kit- KFml innuPREP Virus DNA/RNA Kit- FX innuPREP Virus TS RNA Kit 2.0- FX innuPREP DNA/RNA Virus PLUS Kit- KFFLX innuPREP AniPath DNA/RNA Kit 2.0- KFFLX innuPREP Anipath DNA/RNA Kit- FX innuPREP AniPath DNA/RNA Kit- PP Mini
Waste Water	innuPREP Sewage Water DNA/RNA Kit innuPREP TCT Sewage Water Viral DNA/RNA Extraction Kit innuPREP TCT Target Concentration Kit Water	
Yeast cells	innuPREP DNA Mini Kit 2.0 innuPREP SE Blood&Eukaroytic Cells HMW DNA Kit (m)	innuPREP Bacteria DNA Kit- IPC16 smart DNA prep (a) innuPREP SE HMW DNA Kit- KFFLX innuPREP SE HMW DNA- PP Mini

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