

Primer Design™ CO-Prep™ Extraction System

Flexible throughput to meet your nucleic acid extraction needs



NOVACYT

CO-Prep™ Extraction System uses Spin Mixing Technology

CO-Prep™ Extraction System uses novel technology to deliver improved performance to support users in the field of scientific research, and other industrial applications.

CO-Prep™ Extraction System is CE approved.



Flexible throughput

- Process between 1 and 48 samples
- Optimise consumable usage in multiples of 16 samples



Maximise sample input Volume

- Process up to 1,600 µl from a single sample
- >3,900 gauss magnetic rods efficiently collect magnetic beads from a large volume



Spin Mixing Technology

- Spin tips stir magnetic beads at speeds up to 3,000 rpm
- Effective prevention of aerosol cross contamination



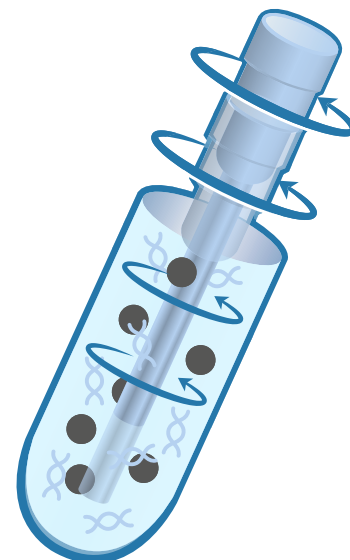
Fully Automated

- Simultaneous processing and purification of DNA, RNA samples
- Automation of complicated manual steps

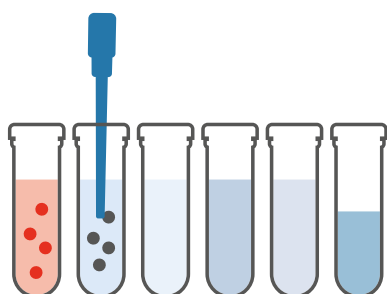


Easy Operation

- Intuitive user interface
- Choose between pre-loaded run templates or user-specified runs

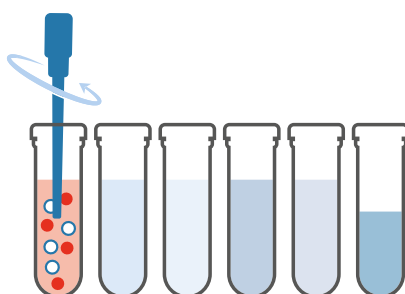


Principle of Nucleic Acid Extraction



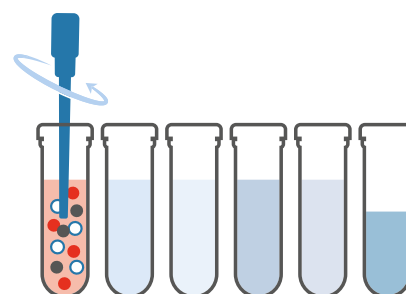
Step 1

Activate beads



Step 2

Mix sample with Lysis Buffer



Step 3

Mix sample with beads

Highly Consistent and Repeatable Performance

- ✓ The coefficient of variation of nucleic acid extraction concentration is less than 5%
- ✓ High consistency
- ✓ No Cross-contamination to neighbour well
Experimental results

Instrument Specification

Product Number	M00140
Weight	Approx. 45 kg
Dimensions	58(L) x 43(W) x 47(H)cm
Power rating	AC 100-AC 240 V
Fuse	250V, 5A
Max. throughput	48 samples per run
Process. volume	50 µl ~ 1,600 µl
Spin speed	up to 3,000 rpm
Heater	12 independent heating blocks
Magnetic rod	>3900 gauss
Display	7-inch touchscreen
UV	UV-C type, 8 W
HEPA	E 10 class

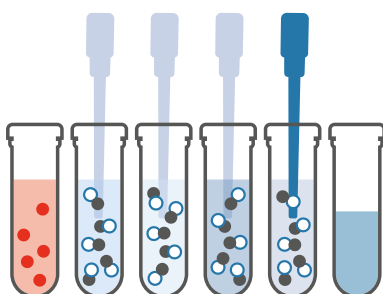
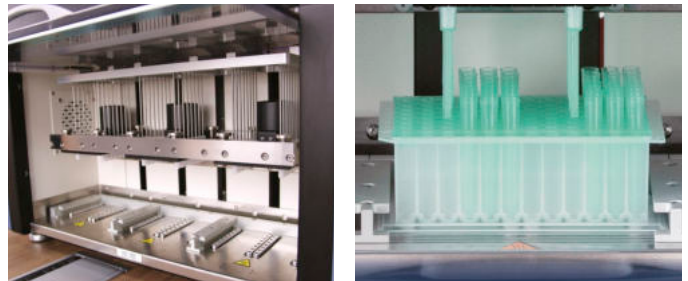


Experimental Results

The displayed gel shows qPCR runs resulting from eight separate extractions (technical replicates) completed on the CO-Prep ES, alternated with extractions from DNA/RNA negative samples.

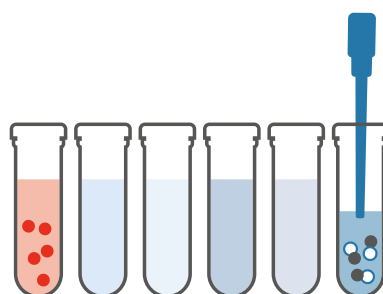
The coefficient of variation of nucleic acid concentrations achieved from the eight extractions (lanes 1, 3, 5, 7, 10, 12, 14 and 16) was less than 5%.

Lanes 2, 4, 6, 8, 9, 11, 13, and 15 demonstrated no PCR product, indicating that no cross-contamination between neighbouring wells occurred.



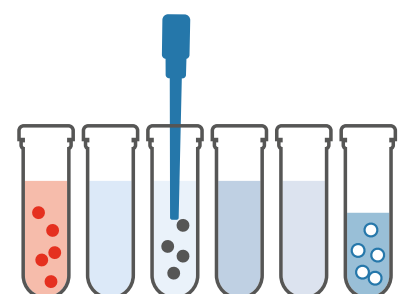
Step 4

Wash bead-DNA from #2 ~ #5 well



Step 5

Elute DNA



Step 6



Release beads

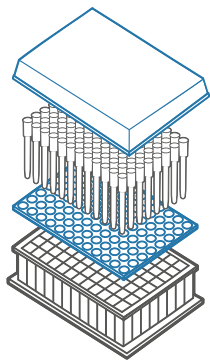
Sample ● Bead ● DNA ○

Primer Design™ Extraction Kits

Description	Tests	Catalogue Number
exsig® Mag Nucleic Acid Extraction Kit	96	D30096
exsig® Mag Nucleic Acid Extraction Kit	960	D30960
exsig® Mag Nucleic Acid Extraction Kit	5000	D35000

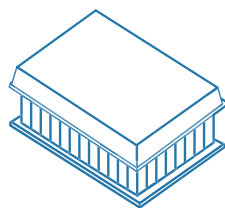
Consumables

Product Name	Quantity	Catalogue Number	Product Image
Deep well plate (96 wells)	16	A30002	
Spin Tips, Assembled Box	96	A30001	

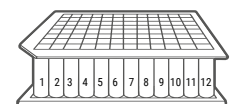


96-spin tips box

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Deep well plate (96-wells) for 1-16 samples (instrument can run 1-48 samples via one of three plate footprints)



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