BROCHURE

Xceler8™ Solution

Rapid, automated
nucleic acid extraction

One BioMed

Advancing human health through innovation

Xceler8™ Solution

Simple, fast, efficient.

A versatile molecular platform that effectively automates nucleic acid extraction and purification without all the fuss.

- Increase productivity
- Simple automation

- Reproducible results
- Stackup to scale

- Minimize human error
- Rapid run times

- Efficient workflow
- Random access

The Xceler8™ Platform

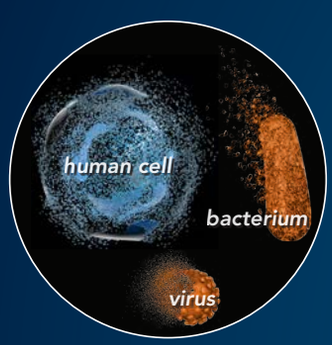
The integrated Xceler8 Solution for automated nucleic acid extraction and purification is a cutting-edge molecular platform that is both accessible and best in class. Comprising of an instrument, ready-to-use Cartridge Kits and a touchscreen tablet with our proprietary X8 App, the Xceler8 Platform is intuitively designed for full process automation. The versatile Xceler8 Solution enables ***beyond simple*** nucleic acid extraction from a variety of biological samples for a wide range of research as well as clinical applications.

Breakthrough Technology

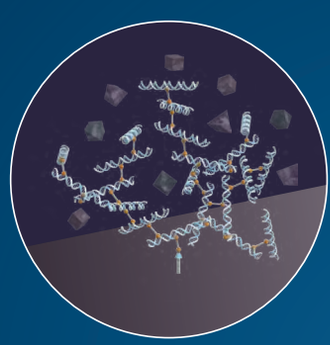
The disruptive Xceler8 Technology significantly expedites and seamlessly integrates the process of nucleic acid extraction and purification. Unlike typical commercial spin-column or magnetic-bead technologies, the automated Xceler8 Technology uses a novel four-step chemistry-based approach to purify nucleic acids, making it the first of its kind to facilitate a ***truly walk-away solution***.

Technology

Sample



1 Cell lysis



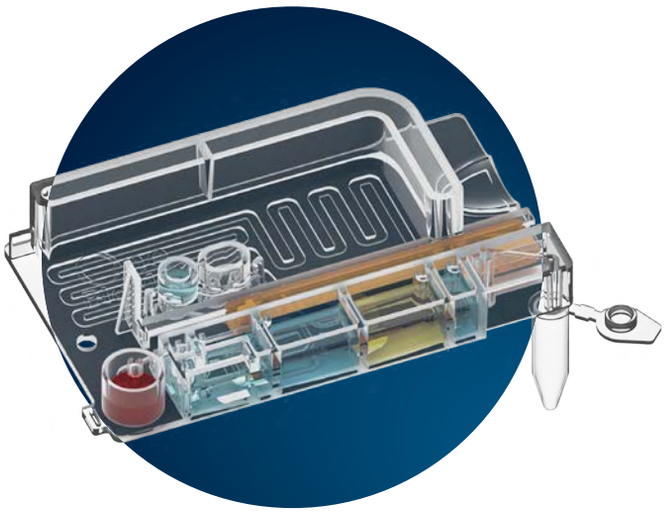
2 Selective binding

X8 OneTouch Instrument

Experience freedom from sample batching with the random-access feature on the X8 OneTouch. By automating the X8 Cartridge Kits, the X8 OneTouch efficiently extracts nucleic acids up to 8 samples at a time, setting new standards for reproducibility & user-friendliness.

Versatile workflow. Gain unparalleled flexibility with the ability to run any sample at any time, instantaneously.

Compact footprint & low noise. Function with safety, ease & low noise, whether on a standard benchtop or within the confines of a biosafety cabinet.

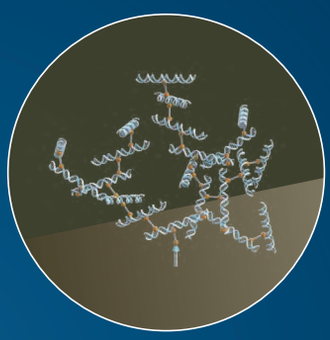


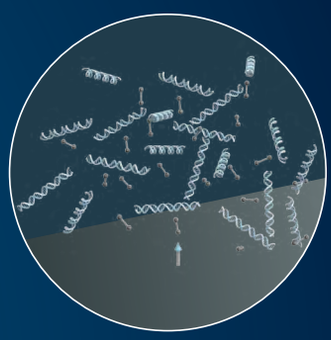
X8 Cartridge Kits

Easily purify high-quality DNA or RNA from a myriad of biological samples for a wide variety of downstream applications. Rapidly automate your sample preparation process by choosing the kit suitable to your workflow.

Ready-to-use. Conveniently process samples with pre-filled, sealed cartridge kits with all-inclusive reagents, including Proteinase K.

Simple handling. Enjoy hassle-free shipping & storage at room temperature with non-volatile and ethanol-free cartridge kits.

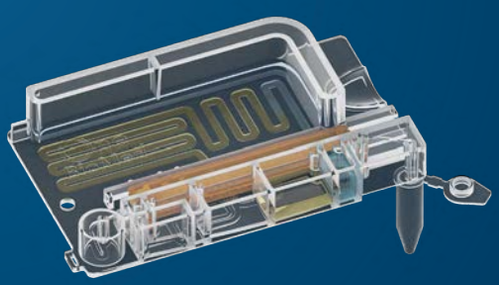


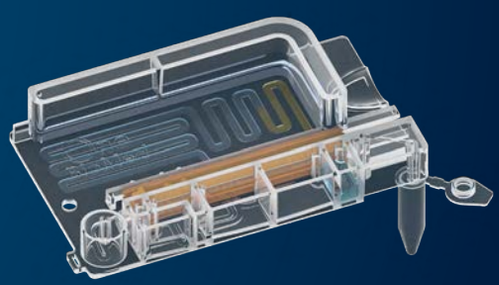


After cell lysis. the reversible crosslinker selectively binds & clusters the released nucleic acids on to the cartridge. Once impurities are washed away & sealed in a built-in waste reservoir, the purified nucleic acids are eluted.

3 **Wash away impurities**

4 **Elute**





Purified Nucleic Acids

X8

SOLUTION HIGHLIGHTS

Turnkey solution.
Plug-and-play instrument with minimal routine maintenance.

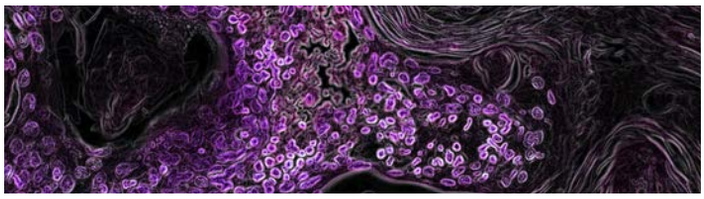
Rapid workflow.
Run samples in as little as 30 minutes without sample batching.

Simple operation.
Ensure high nucleic acid extraction performance from a myriad of sample types with the push of a button.

Reliable cleaning.
Simplify clean up & minimize cross-contamination with the fully sealed cartridge architecture with built-in waste reservoir.

Scale up with stacking.
Increase throughput by stacking X8 OneTouch Instruments.

Cancer research



- Study gene expression changes
- Identify cancer driver genes

Infectious diseases

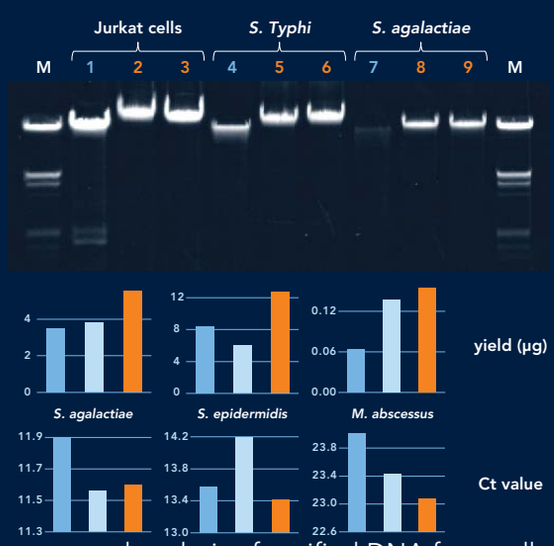
- Detect the presence of pathogens
- Elucidate antibiotic resistance

Genetic disorders

- Classify variants of interest
- Analyze gene mutations

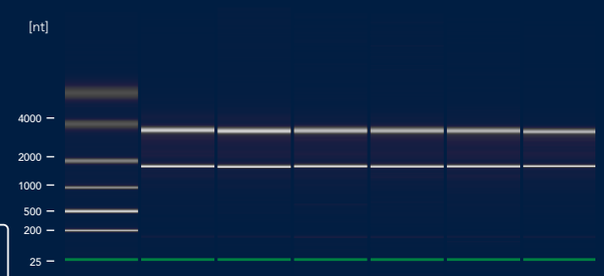
High yield & reproducible performance with the X8 Genomic DNA & RNA Cartridge Kits

High yield



T: Agarose gel analysis of purified DNA from cell culture, gram- & gram+ bacteria. B: Quantified DNA yield & RT-PCR data from gram+ bacteria.

Reproducible performance



	company Q	company P	X8			
RIN	9.4	9.5	9.3	9.0	9.6	9.3
$A_{260/280}$	2.02	2.01	2.03	2.02	2.06	2.02
$A_{260/230}$	1.78	1.56	1.75	1.34	1.62	1.45
RNA Conc. [ng/µL]	105.2	103.1	100.3	99.1	102.3	98.2

T: Reproducible RNA extraction performance across 6 samples of 1 x 10^6 HeLa cells each using X8 Cellular RNA Cartridge Kit. The quality of the total RNA was determined with the Agilent 2100 Bioanalyzer and Nanodrop. Elution vol. 80-90 µL.

Cartridge Kits, 24 preps

DNA	Catalog number
X8 Genomic DNA Kit	X8-GD-001-24
X8 Tissue DNA Kit	X8-TD-001-24

RNA	Catalog number
X8 Cellular RNA Kit	X8-CR-001-24
X8 Tissue RNA Kit	X8-RT-001-24
X8 Viral RNA Kit	X8-VR-001-24

Instruments

Nucleic Acid Extraction	Catalog number
X8 OneTouch	X8-OT-101-IN

Contact us

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SAM-0001-EN RevB

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