

# X8™ Cellular RNA Cartridge Kit

For use with Xceler8™ Platform



Advancing human health  
through innovation



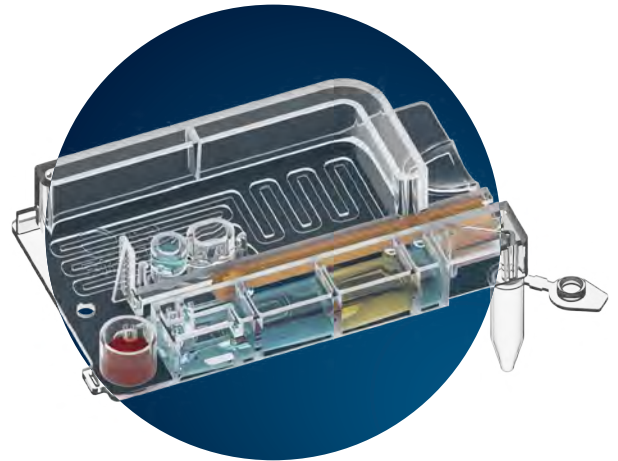
One BioMed

## X8™ Cellular RNA Cartridge Kit

**Rapid, efficient and beyond simple.**

Our proprietary chemistry and integrated cartridge architecture rapidly automates the extraction of high-quality total RNA from mammalian cell culture samples.

The ready-to-use X8 Cartridge Kits include all necessary reagents for high-quality total RNA extraction. The lysis buffer has been optimized to minimize genomic DNA copurification, thereby ensuring the purified cellular RNA is suitable for various downstream applications. The X8 Cartridge Kits are also non-volatile and ethanol-free, making them easy to ship and store at room temperature.



### PLATFORM HIGHLIGHTS



**Simple operation.** Get high quality and quantity of total RNA at the push of a button.



**Ready-to-use.** Easily process samples in cartridges, pre-packed with all essential reagents.



**Versatile workflow.** Gain unparalleled flexibility with random-access sample loading.



**Reliable cleaning.** Minimize clean up & cross-contamination with fully closed architecture and built-in waste reservoir.



**Rapid run-time.** Run up to 8 samples under an hour, without sample batching.



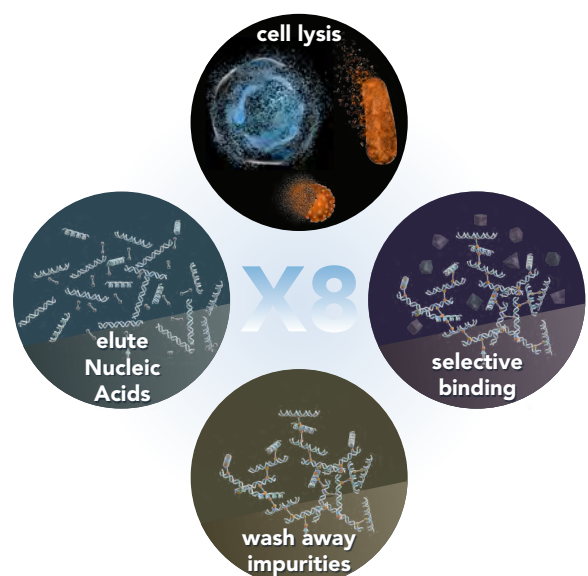
**Sample volumes.** Input volume 300  $\mu$ L and elution volume is 50-100  $\mu$ L.

## Powered by Xceler8™ Technology

### Breakthrough Technology

Unlike typical commercial spin-column or magnetic-bead technologies, the disruptive Xceler8 Technology significantly expedites and seamlessly automates the process of cellular RNA extraction from mammalian cells.

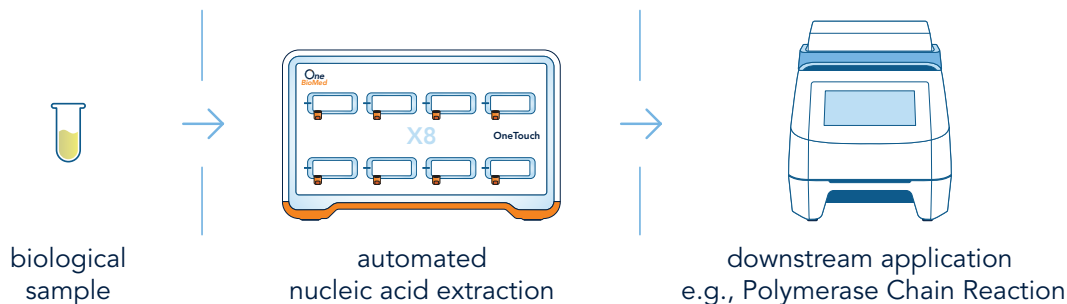
The novel chemistry-based approach uses a reversible cross-linker to selectively bind & cluster total RNA from the lysed samples on to the surface of the cartridge. Once impurities are washed away & sealed in the built-in waste reservoir, the purified RNA is released and eluted using an elution buffer. The purified RNA is suitable for various downstream applications, without the need for additional DNAase treatment.



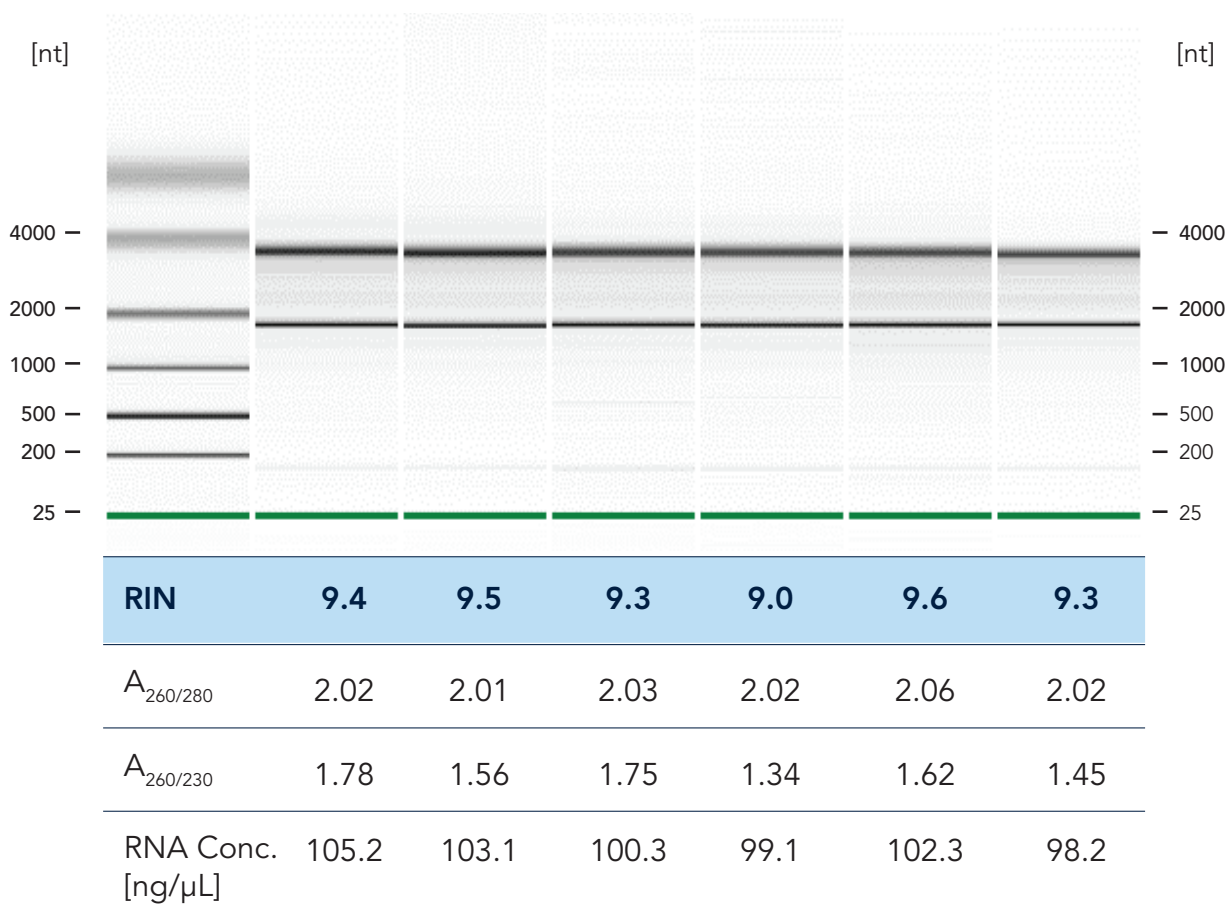
## X8 Workflow

### Fit seamlessly into your existing workflow

Use the automated X8 Platform to get consistent and reproducible nucleic acid extraction from mammalian cell culture samples.



## High yield & reproducible performance of X8 RNA Cartridge Kit



**Figure 1.** Total cellular RNA was isolated from 6 samples of  $1 \times 10^6$  HeLa cells each, using the automated X8 Cellular RNA Cartridge Kit. The quality of the total RNA was determined with the Agilent 2100 Bioanalyzer and Nanodrop. Elution volume was 80-90  $\mu$ L.

## Xceler8 Products

INSTRUMENT		CATALOG NO.
X8 OneTouch Instrument		X8-OT-101-IN
CARTRIDGE KITS, 24 PREPS		CATALOG NO.
DNA	X8 HMW DNA Kit	X8-HD-001-24
	X8 Genomic DNA Kit	X8-GD-001-24
	X8 Tissue DNA Kit	X8-TD-001-24
RNA	X8 Cellular RNA Kit	X8-TR-001-24
	X8 Tissue RNA Kit	X8-RT-001-24
	X8 Viral RNA Kit	X8-VR-001-24

## Research Areas

- Cancer research
- Genetic disorders
- Pharmacogenomics

## Application Areas

- Quantitative, real-time RT-PCR
- RNA-Seq
- Microarray analysis
- Northern, dot, and slot blotting

### Contact us

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