Single Cell RNA Purification Kit

CAT 51800, EXTRAClean 74900

Rapid purification of total RNA - including microRNA - from small input amounts

- No size or GC bias with Norgen's patented Silicon carbide technology
- Extract total RNA (including small/ micro RNAs) from a wide variety of samples
- Recover up to 10µg in a small elution of 8µL
- NGS Ready: RNA is ready for every downstream application including Next Generation sequencing and RT-qPCR.

ISO 9001:2015 CERTIFIED QUALITY · ISO 13485:2016 CERTIFIED QUALITY · GMP COMPLIANT

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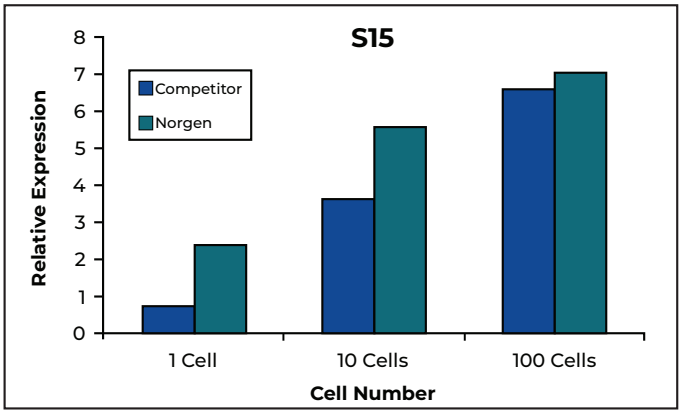
Advantages to Bring to Your Lab

A



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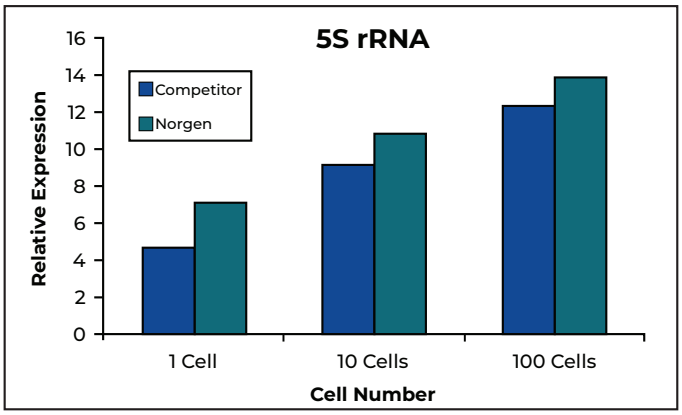
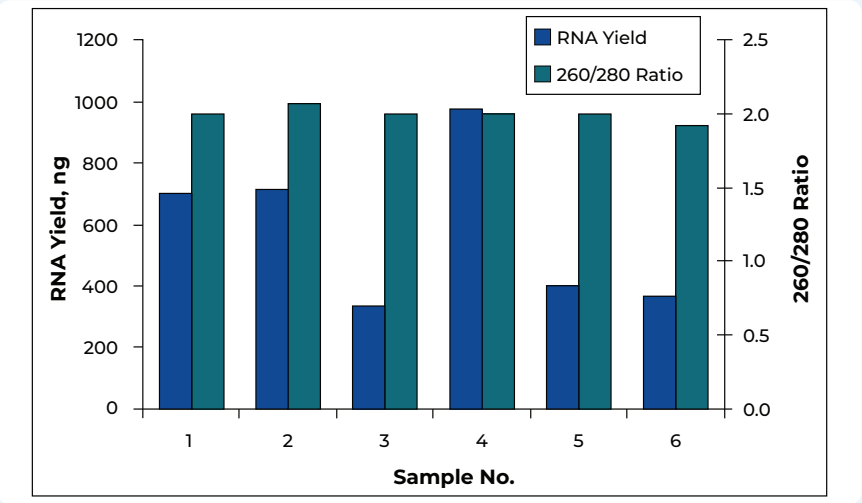


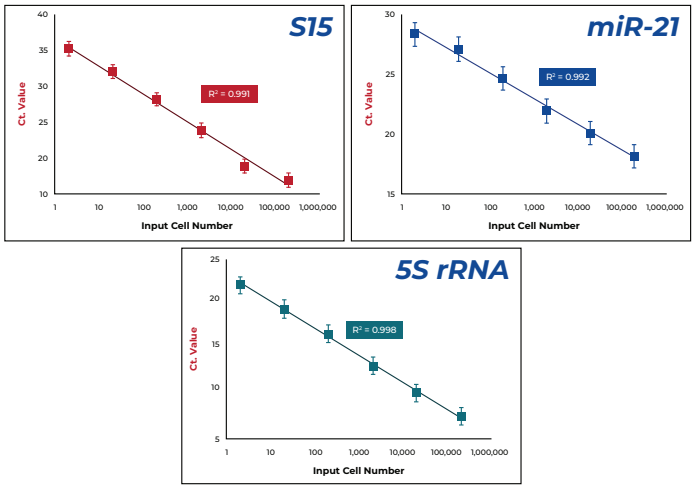
NORGEN OUTPERFORMS COMPETITORS IN SINGLE-CELL RNA SENSITIVITY

Figure 1. Better Efficiency of RNA Recovery at Single Cell Input. Norgen's Single Cell RNA Purification Kit allows sensitive RNA extraction from as little as a single cell and outperforms competitor's kits that claim similar sensitivity. Total RNA was extracted from 1 to 100 of HeLa cells using Norgen's Single Cell RNA Purification Kit and a competitor's spin column purification kit. The extracted RNA was subjected to RT-qPCR to detect the human S15 and 5S rRNA transcript in the isolated RNA. RNA isolated by Norgen's Single Cell RNA Purification Kit showed much higher relative expression of each RNA transcript tested at all cell input numbers down to single cell.



RELIABLE RNA EXTRACTION FOR LOW-INPUT LCM APPLICATIONS

Figure 2. High Quality RNA Isolated from Laser-Captured Microdissection (LCM). Norgen's Single Cell RNA Purification Kit allows sensitive but high-quality RNA extraction from small inputs such as Laser-Captured Microdissection (LCM). Total RNA was isolated from 6 different LCM samples. RNA yield and quality (260/280 ratio) were assessed by NanoVue spectrophotometry. Norgen's Single Cell RNA Purification Kit recovered good amounts of RNA with an excellent 260/280 ratio.



EXCEPTIONAL LINEARITY AND CONSISTENCY IN SINGLE-CELL RNA RECOVERY

Figure 3. Consistent and Linear Recovery of All Sizes of RNA down to Single Cell Input. Norgen's Single Cell RNA Purification Kit allows sensitive RNA extraction from as little as a single cell with great linearity. Total RNA was extracted from a decreasing number of HeLa cells using Norgen's Single Cell RNA Purification Kit. The extracted RNA was subjected to RT-qPCR to detect all sizes of RNA, including the human S15 (mRNA), 5S rRNA transcript (small RNA), and miR-21 (microRNA). RNA isolated by Norgen's Single Cell RNA Purification Kit showed very high consistency (over 99%) of recovery of each RNA transcript tested at all cell input numbers down to a single cell.

KIT SPECIFICATIONS

Maximum Binding Capacity	10 µg
Maximum Loading Volume	650 µL
Minimum Elution Volume	8 µL
Size of RNA Purified	All sizes, including small RNA (< 200 nt)
Maximum Amount of Starting Material	
Animal Cells	Single Cell to 2 x 10^5 cells
Laser-Captured Microdissection (LCM)	Single Cell to 2 x 10^5 cells
Time to Complete 10 Purifications	20 minutes
Average Yield	
HeLa Cells (1 x 10^5 cells)	~ 1.5 µg
HeLa Cells (100 cells)	~ 1.5 ng
HeLa Cells (1 cell)	≥ 1pg

PUBLICATIONS

Haghighitalab, A., Nosrati, F., Dehghani-Ghobadi, Z., Sayed, M., Ahn, C., Hu, Y. C., Chung, E., Lim, H. W., & Park, J. S. (2026). **A knock in Six2Cre line reveals transient interstitial potential in nephron progenitors.** bioRxiv : the preprint server for biology, 2026.02.04.703893. https://doi.org/10.64898/2026.02.04.703893

Zukowska, M., Skulimowska, I., Sypniewski, M., Kusienicka, A., Tomczyk, M., Mosiolek, S., Morys, J., Werner, E., Hajduk, K., Djeghloul, D., Goodhardt, M., Dulak, J., Jozkowicz, A., & Szade, K. (2026). **Non-canonical heme oxygenase-1 function in hematopoietic stem cell homeostasis and aging.** https://doi.org/10.64898/2026.01.26.701757

Slavickova, L., Nemcova, M., Svehlova, D., Frybortova, V., Manakova, J., Kriegova, E., Minarik, J., & Trtkova, K. S. (2026). **Regulatory function of ten-eleven translocation-2 in transcriptional mechanisms of demethylated myeloma cells.** Molecular medicine reports, 34(2), 237. https://doi.org/10.3892/mmr.2026.13947

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ORDERING INFORMATION

Description	Prep	Cat. #
Single Cell RNA Purification Kit	50 Preps	51800
EXTRAClean Single Cell RNA Purification Kit	50 Preps	74900

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Total RNA Purification Kits	50 Preps	17200

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