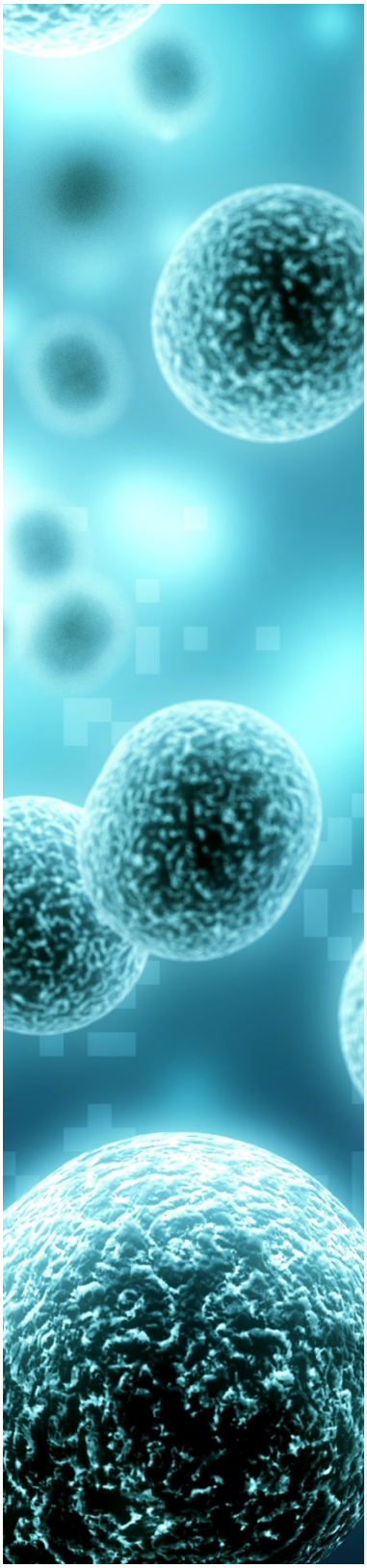


Exosomal RNA Purification Kit

CAT. 58000

QUICK AND EASY PROTOCOL FOR THE ISOLATION OF EXOSOMAL RNA FROM EXOSOMES PREVIOUSLY PURIFIED USING NORGEN'S EXOSOME PURIFICATION KITS, ULTRACENTRIFUGATION, SIZE EXCLUSION CHROMATOGRAPHY OR MOST OTHER COMMERCIAL METHODS

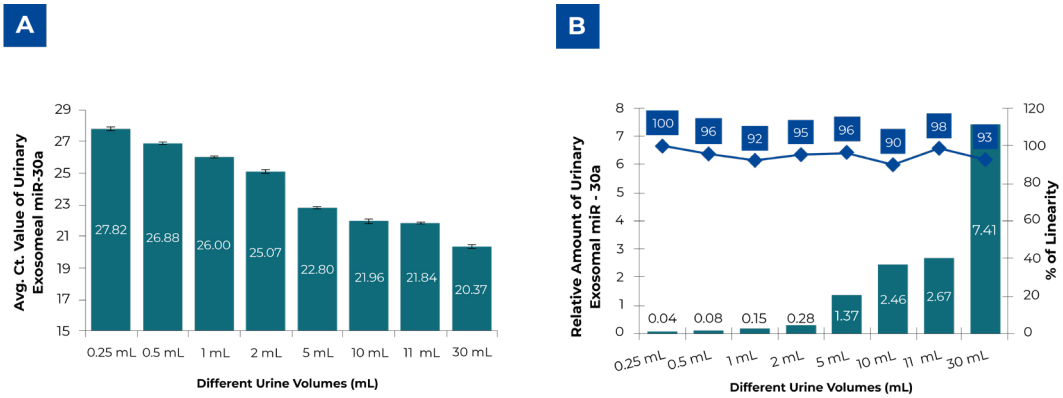
- Isolate all sizes of exosomal and extracellular vesicle RNA, including microRNA
- Bind and elute all RNA irrespective of size or GC content, without bias
- No phenol extractions, No Proteinase K treatment, No carrier RNA
- Concentrate isolated RNA into a flexible elution volume ranging from 50 µL to 100 µL
- Purify high-quality RNA in 15-20 minutes
- Purified RNA is suitable for a variety of downstream applications, including Small RNA Sequencing
- Purification is based on spin column chromatography that uses Norgen's proprietary resin

NORGEN BIOTEK

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

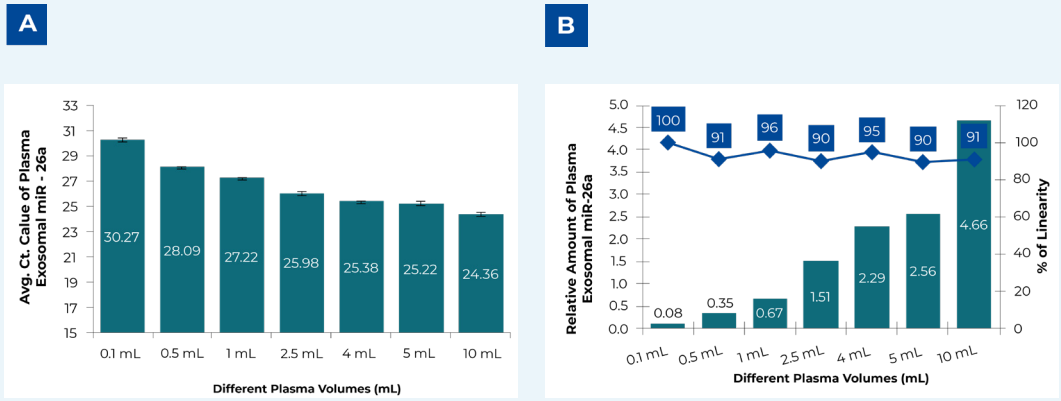
norgenbiotek.com

Advantages You Will Bring to Your Lab



EXCELLENT LINEARITY OF URINARY EXOSOMAL MIR-30A WITH A PERCENTAGE OF RECOVERY OF MORE THAN 90%

Figure 1. Isolation of RNA from exosomes purified from different urine volumes. Norgen's Exosomal RNA Isolation Kit (Cat# 58000) was used to isolate RNA from exosomes isolated from different urine volumes purified using Norgen's Urine Exosome Purification Kits (Cat# 57700, 57800 and 57900). 2 µL of the isolated RNA was then used as the template in RT-qPCR reactions to assess the amplification of the isolated urinary exosomal miR-30a. **(A)** The avg. Ct value for urinary exosomal miR-30a is linearly decreasing with increasing the sample input volume. **(B)** The relative amount of the urinary exosomal miR-30a shows excellent linearity with a percentage of recovery of more than 90%.



EXCELLENT LINEARITY OF PLASMA EXOSOMAL MIR-26A WITH A PERCENTAGE OF RECOVERY OF MORE THAN 90%

Figure 2. Isolation of RNA from exosomes purified from different plasma volumes. Norgen's Exosomal RNA Isolation Kit (Cat# 58000) was used to isolate RNA from exosomes isolated from different plasma volumes purified using Norgen's Plasma/Serum Exosome Purification Kits (Cat# 57400, 57500 and 57600). 2 µL of the isolated RNA was then used as the template in RT-qPCR reactions to assess the amplification of the isolated plasma exosomal miR-26a. **(A)** The avg. Ct value for plasma exosomal miR-26a is linearly decreasing with increasing the sample input volume. **(B)** The relative amount of the plasma exosomal miR-26a shows excellent linearity with a percentage of recovery of more than 90%.

Technical Specifications

Description	Specifications
Sample Type	Exosomes purified using Norgen's Purification Kits and most other methods
Size of RNA Purified	All Sizes, Including miRNA and Small RNA (<200 nt)
Elution Volume	50-100 µL
Time to Complete 10 Purifications	35-40 minutes
Average Yields*	Variable depending on specimen

*Please check page 5 of the product insert for the average yields and the common RNA quantification methods.

Storage Conditions and Product Stability

All buffers should be kept tightly sealed and stored at room temperature. This kit is stable for 2 years after the date of shipment. It is recommended to warm Lysis Buffer A for 20 minutes at 60°C if any salt precipitation is observed.

Select Publications

Bica, Cecilia, et al. **"MiRNA Patterns in Male LUSC Patients - the 3-Way Mirror: Tissue, Plasma and Exosomes."** Translational Oncology, vol. 44, June 2024, p. 101951, https://doi.org/10.1016/j.tranon.2024.101951.

Miguel Angel Pardo-Cea, et al. **"Biological Basis of Extensive Pleiotropy between Blood Traits and Cancer Risk."** Genome Medicine, vol. 16, no. 1, BioMed Central, Feb. 2024, https://doi.org/10.1186/s13073-024-01294-8.

Trentini, Martina, et al. **"Link between Organic Nanovescicles from Vegetable Kingdom and Human Cell Physiology: Intracellular Calcium Signalling."** Journal of Nanobiotechnology, vol. 22, no. 1, 2024, p. 68, https://doi.org/10.1186/s12951-024-02340-8.

Ordering Information

Description	Preps	Cat. #
Exosomal RNA Purification Kit	Variable	58000

Related Products

Description	Prep Size	Cat. #
Exosome Purification Kit Mini	50 Prep	75700
Exosome Purification Kit Midi	25 Prep	75800
Exosome Purification Kit Maxi	15 Prep	75900
Norgen Next Generation Sequencing Services	Call 1-866-Norgenb or Visit norgenbiotek.com	

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