

# Cell Culture Media Exosome Purification and RNA Isolation Kits

CAT. 60700, 60800, 60900

ALL-IN-ONE SYSTEM FOR THE PURIFICATION OF EXOSOMES AND THE SUBSEQUENT ISOLATION OF RNA FROM CELL CULTURE MEDIA

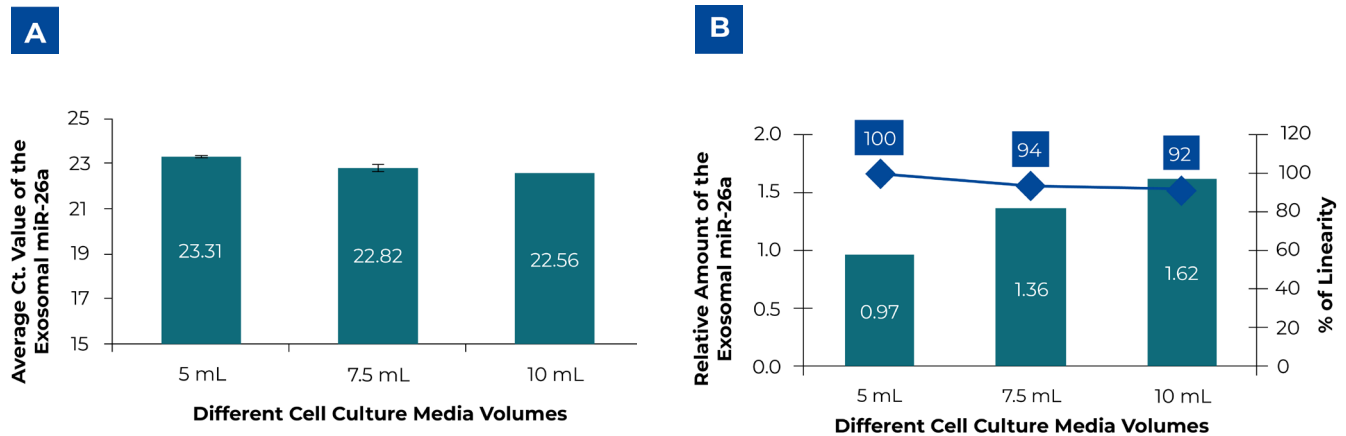


- ✓ Purification and enrichment of intact cell culture media exosomes for functional studies
- ✓ Isolate all sizes of RNA, including microRNA, irrespective of size or GC content, without bias.
- ✓ Versatile cell culture media input volumes
- ✓ No phenol extractions, Proteinase K treatment, nor carrier RNA required
- ✓ No time-consuming ultracentrifugation, filtration nor special syringes required
- ✓ No precipitation reagents nor overnight incubation required
- ✓ Pure exosomes are purified and are free from any other RNA-binding proteins
- ✓ RNA purification is based on spin column chromatography that uses Norgen's proprietary resin



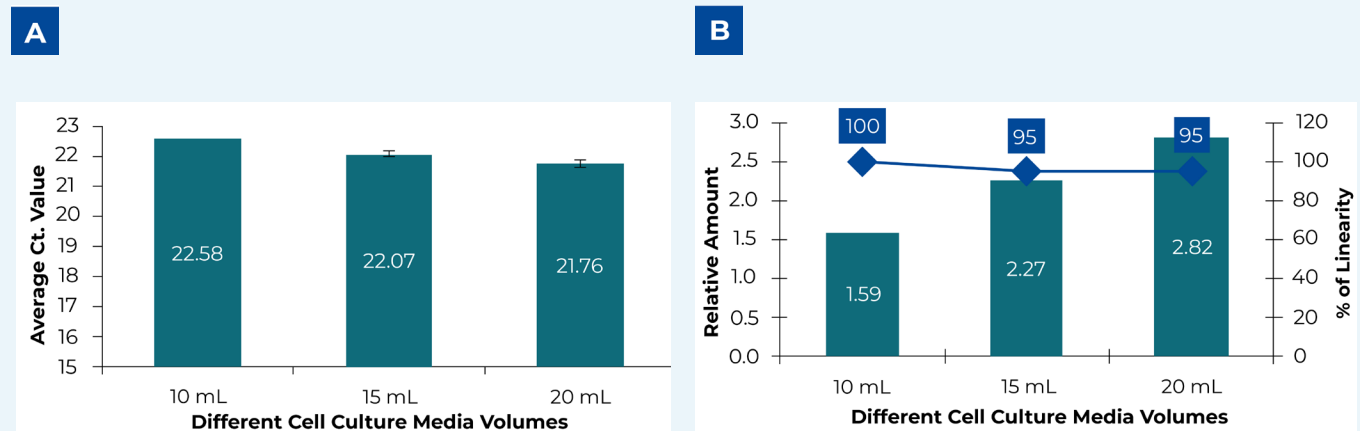
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# Advantages You Will Bring to Your Lab



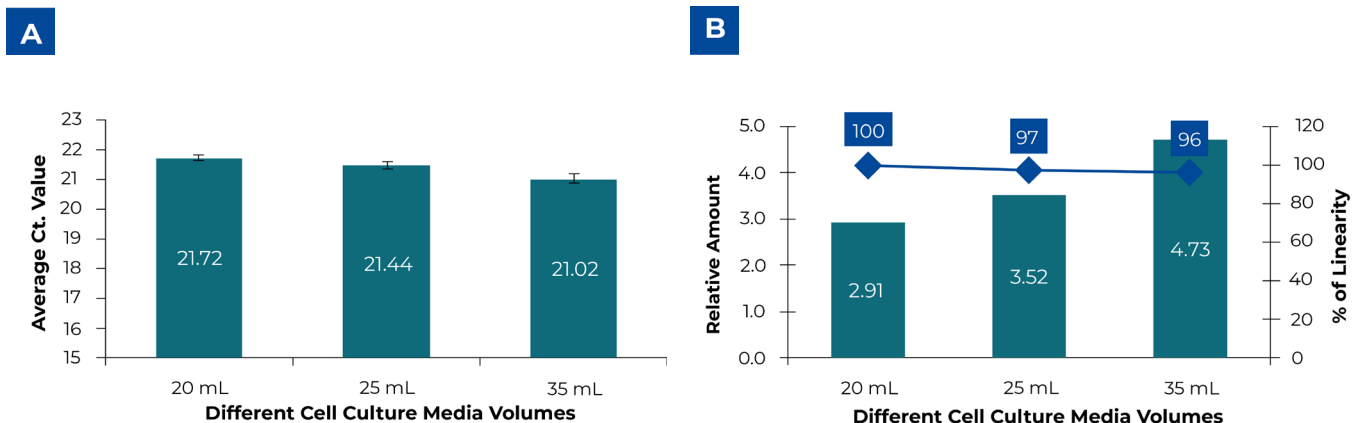
EXCELLENT LINEARITY WITH A PERCENTAGE OF RECOVERY OF MORE THAN 90% USING MINI KIT

**Figure 1. Isolation of RNA from exosomes purified from different cell culture media volumes.** Norgen's Cell Culture Media Exosome Purification and RNA Isolation Mini Kit (Cat# 60700) was used to isolate exosomal RNA from exosomes purified from different cell culture media volumes using the same kit. 2  $\mu$ L of the isolated RNA was then used as the template in RT-qPCR reactions to assess the amplification of the isolated exosomal RNA (A) The avg. Ct value for exosomal miR-26a is linearly decreasing with increasing the sample input volume. (B) The relative amount of the exosomal miR-26a shows excellent linearity with a percentage of recovery of more than 90%.



EXCELLENT LINEARITY WITH A PERCENTAGE OF RECOVERY OF MORE THAN 90% USING MIDI KIT

**Figure 2. Isolation of RNA from exosomes purified from different cell culture media volumes.** Norgen's Cell Culture Media Exosome Purification and RNA Isolation Midi Kit (Cat# 60800) was used to isolate exosomal RNA from exosomes purified from different cell culture media volumes using the same kit. 2  $\mu$ L of the isolated RNA was then used as the template in RT-qPCR reactions to assess the amplification of the isolated exosomal RNA (A) The avg. Ct value for exosomal miR-26a is linearly decreasing with increasing the sample input volume. (B) The relative amount of the exosomal miR-26a shows excellent linearity with a percentage of recovery of more than 90%.



## EXCELLENT LINEARITY WITH A PERCENTAGE OF RECOVERY OF MORE THAN 90% USING MAXI KIT

**Figure 3. Isolation of RNA from exosomes purified from different cell culture media volumes.** Norgen's Cell Culture Media Exosome Purification and RNA Isolation Maxi Kit (Cat# 60900) was used to isolate exosomal RNA from exosomes purified from different cell culture media volumes using the same kit. 2  $\mu$ L of the isolated RNA was then used as the template in RT-qPCR reactions to assess the amplification of the isolated exosomal RNA (A) The avg. Ct value for exosomal miR-26a is linearly decreasing with increasing the sample input volume. (B) The relative amount of the exosomal miR-26a shows excellent linearity with a percentage of recovery of more than 90%.

## TECHNICAL SPECIFICATION

Description	Specifications
Sample Type	Cell-Free Cell Culture Media
Sample Volume Range	5 mL to 35 mL
Size of RNA Purified	All sizes, including miRNA and small RNA (<200 nt)
Elution Volume	50-100 $\mu$ L
Time to Complete 10 Purifications	35 to 40 minutes
Average Yields*	Variable depending on specimen

\* Please check page 4 of the product insert for Average Yields and Common RNA Quantification Methods

## SELECT PUBLICATIONS

Publication Title	Authors	Journal	Year
Mitochondrial Metabolism and EV Cargo of Endothelial Cells Is Affected in Presence of EVs Derived from MSCs on Which HIF Is Activated.	Zanotti F, Zanolla I, Trentini M, Tiengo E, Pusceddu T, Licastro D, Degasperri M, Leo S, Tremoli E, Ferroni L	International Journal of Molecular Sciences	2023
Long noncoding RNA Gas5 induces cell apoptosis and inhibits tumor growth via activating the CHOP-dependent endoplasmic reticulum stress pathway in human hepatoblastoma HepG2 cells	Zhang WY, Zhan HL, Li MK, Wu GD, Liu Z, Wu LF	Journal of cellular biochemistry	2022

# Ordering Information

Description	Preps	Cat. #
Cell Culture Media Exosome Purification and RNA Isolation Kits	50 Prep	60700
Cell Culture Media Exosome Purification and RNA Isolation Kits	25 Prep	60800
Cell Culture Media Exosome Purification and RNA Isolation Kits	15 Prep	60900

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APPLICATION

Related Products	Prep Size	Cat. #
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