

Total RNA Purification Kit Dx

Norgen's Total RNA Purification Kit Dx provides a rapid method for the isolation and purification of total RNA from tissue samples, blood, plasma, serum, bacteria, yeast, fungi and viruses for subsequent in vitro diagnostic use. The kit purifies all sizes of RNA, from large mRNA and ribosomal RNA down to microRNA (miRNA) and small interfering RNA (siRNA). The RNA is preferentially purified from other cellular components such as proteins, without the use of phenol or chloroform.

This kit is designed to be used with any downstream application employing enzymatic amplification or other enzymatic modifications of RNA followed by signal detection or amplification. Any diagnostic results



generated using the RNA isolated with Norgen's Total RNA Purification Kit Dx in conjunction with an *in vitro* diagnostic assay should be interpreted with regard to other clinical or laboratory findings. To minimize irregularities in diagnostic results, suitable controls for downstream applications should be used.

Norgen's Total RNA Purification Kit Dx is intended for use by professional users such as technicians, physicians and biologists experienced and trained in molecular biological techniques.

Norgen's Total RNA Purification Kit Dx does not provide a diagnostic result. It is the sole responsibility of the user to use and validate the kit in conjunction with a downstream in vitro diagnostic assay. downstream in vitro diagnostic assay.

Kit Specifications			
Column Binding Capacity	50 μg	Size of RNA Purified	All sizes
Maximum Column Loading Volume	650 μL	Time to Complete 10 Purifications	20 minutes

Total RNA Purification Kit Dx Benefits			
Isolate a diversity of RNA species	All RNA species can be isolated, from large mRNA and ribosomal RNA down to microRNA (miRNA) and small interfering RNA (siRNA).		
Fast and easy processing	Rapid spin-column format allows for the processing of 10 samples in 20 minutes.		
No phenol:chloroform extractions	Total RNA is isolated without the use of harmful chemicals such as phenol or chloroform.		
Isolate total RNA from very small samples	Total RNA has been isolated and detected from as little as a single animal cell.		
Isolate inhibitor-free RNA	Purified RNA is of the highest quality and free from inhibitors, and can be used in downstream applications employing enzymatic amplification or other enzymatic modification of RNA followed by signal detection or amplification for <i>in vitro</i> diagnostic use.		
CE Marked Product	This CE Marked kit is ideal for isolating RNA samples for in vitro diagnostic use.		



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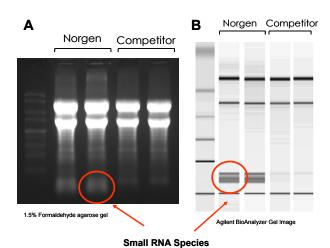


Figure 1. Isolate a Diversity of RNA Species

Total RNA was isolated from 1 x 10^9 E. coli cells using Norgen's Total RNA Purification Kit Dx and a competitor's kit. Five microliters and 1 µL of the 50 µL isolated RNA was analyzed on an agarose gel (Panel A) and the Agilent® 2100 BioAnalyzer RNA Nano 6000 chip (Panel B), respectively. Note the presence of small RNA species (red circle) in the samples isolated via Norgen's kit and the absence of these RNA species in the competitor RNA preparation.

Total RNA Purification Kit Dx Contents

- 1. Lysis Solution
- 2. Wash Solution
- 3. Elution Solution
- 4. Mini Spin Columns
- 5. Collection Tubes
- 6. Elution tubes (1.7 mL)
- 7. Product Insert

Shipping Conditions

The Total RNA Purification Kit Dx is shipped at room temperature.

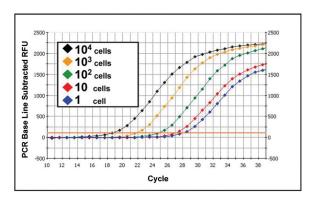


Figure 2. Isolation and Detection of RNA from as Little as a Single Animal Cell

Norgen's Total RNA Purification Kit Dx was used to isolate total RNA from decreasing numbers of HeLa cells, and qPCR was then used to detect the RNA. Total RNA was isolated and detected all the way down to a single cell using Norgen's kit.

Customer-Supplied Reagents and Equipment

- Benchtop microcentrifuge
- 96-100% ethanol
- β-mercaptoethanol
- Mortar and pestle, liquid nitrogen, 70% ethanol (Tissue, fungi, plant)
- TE Buffer and lysozyme (Bacteria)
- Resuspension buffer with lyticase (Yeast)
- Sterile, single-use cotton swabs (Nasal or throat swabs)
- MS2 RNA (Plasma/Serum)

Storage Conditions

All solutions should be kept tightly sealed and stored at room temperature. All solutions and plastics can be used until the expiration date specified on their labels,

Cat #	Description	Quantity
Dx17200	Total RNA Purification Kit Dx	50 preps

NOTE: This product is not for sale in the United States

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