

## FFPE RNA Purification 96-Well Kit

Norgen's FFPE RNA Purification Kit provides a rapid method for high throughput isolation and purification of total RNA (including microRNA) from formalin-fixed paraffin-embedded (FFPE) tissue samples. Using formalin to fix tissues leads to crosslinking of the RNA and proteins, and the process of embedding the tissue samples can also lead to fragmentation of the RNA over time. Norgen's FFPE RNA Purification Kit provides conditions that allow for the partial reversing of the formalin modifications, resulting in a high quality and yield of RNA. The kit is able to purify all sizes of RNA, from large mRNA and ribosomal RNA down to microRNA (miRNA) and



small interfering RNA (siRNA), depending on the age of the FFPE tissue as the degree of fragmentation of the RNA will increase over time. The RNA is preferentially purified from other cellular components without the use of phenol or chloroform. The purified RNA is of the highest integrity, and can be used in a number of downstream applications including qRT-PCR, reverse transcription PCR, primer extension, expression array assays, and microarray analyses.

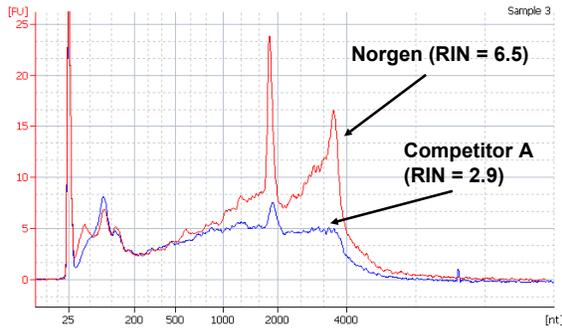
Kit Specifications			
Binding Capacity per Well	50 µg	Maximum Amount of Starting Material:	
Maximum Loading Volume per Well	500 µL	Paraffin Slices	5 slices 20 µm thick
Size of RNA Purified	All sizes	Unsectioned Block	25 mg

### FFPE RNA Purification 96-Well Kit Benefits

High quality and integrity of the isolated RNA	The purified total RNA is of the highest quality and integrity, and can be used in any sensitive downstream applications.
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).
High yields	Norgen's FFPE RNA Purification 96-Well Kit allows for the purification of high yields of total RNA.
No phenol:chloroform extractions	Total RNA is isolated from FFPE tissue samples without the use of harmful chemicals such as phenol or chloroform.
Versatile procedure	Purification can be performed using either a vacuum manifold or centrifugation.

0

## FFPE RNA Purification 96-Well Kit



**Figure 1. High Quality and Yield of Total RNA**

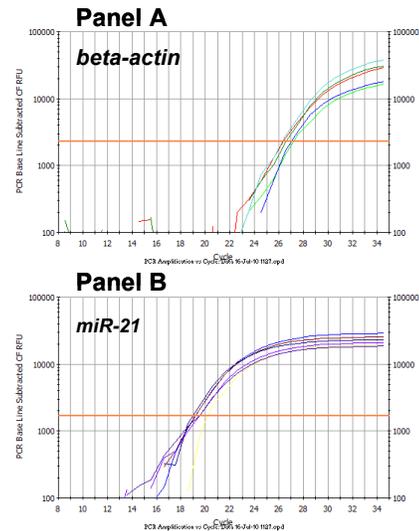
Total RNA was isolated from equal amounts of an FFPE tissue sample using Norgen's FFPE RNA Purification Kit and a leading competitor's kit. The purified RNA was then resolved on an Agilent Bio-Analyzer. As it can be seen, Norgen not only isolated higher yields of total RNA, but the RNA was also of a higher quality as evidenced by the higher RIN values obtained with Norgen's RNA.

### FFPE RNA Purification Kit Contents

1. Digestion Buffer A
2. Buffer RL
3. Enzyme Incubation Buffer A
4. Wash Solution A
5. Elution Solution A
6. Proteinase K
7. DNase I
8. 96-Well Incubation Plate
9. 96-Well Plate
10. Adhesive Tape
11. 96-Well Collection Plate
12. 96-Well Elution Plate
13. Product Insert

### Shipping Conditions

The FFPE RNA Purification 96-Well Kit is shipped at room temperature.



**Figure 2. High Yield of a Diversity of RNA Species**

Total RNA was isolated from equal amounts of an FFPE tissue sample using Norgen's FFPE RNA Purification Kit. The purified RNA was then used as the template in a RT-qPCR for detecting the beta-actin gene (Panel A) and for detecting miR-21 (Panel B). As it can be seen, Norgen's kit isolated higher yields of RNA in both cases, as indicated by the lower  $C_t$  values of the blue lines. Also, Norgen's kit successfully isolated not only large RNA (Panel A) but also microRNA (Panel B), indicating the diversity of RNA species isolated.

### Storage Conditions

All solutions should be kept tightly sealed and stored at room temperature. The DNase I should be stored at  $-20^{\circ}\text{C}$  upon arrival. The Proteinase K should be stored at  $-20^{\circ}\text{C}$  upon arrival and after reconstitution. These reagents should remain stable for at least 1 year in their unopened containers.

Cat #	Description	Quantity
25400	FFPE RNA Purification 96-Well Kit	2 x 96 preps

3430 Schmon Parkway, Thorold, ON, Canada L2V 4Y6

Phone: 905-227-8848 Fax: 905-227-1061

North American Toll Free: 1-866-667-4362