

MagCore® Total RNA FFPE One-Step Kit is specially designed for total RNA purification from FFPE tissues by MagCore® instruments. It features the method, one-step heating, to melt paraffin without harmful reagents involved such as xylene or other organic solvents, and lyse tissues at the same time. The MagCore® Total RNA FFPE One-Step Kit System optimizes the lysis conditions to reverse the formalin fixation without the need for overnight digestion and retain both large and small RNAs. The program provides optional DNase I treatment to remove contaminated DNA.



#### MagCore® Total RNA FFPE One-Step Kit

Heat block Well

### Features

1. A full package for total RNA isolation from FFPE tissue samples. It starts from melting paraffin to the final RNA purification.

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- 2. Highly user-friendly protocol with minimal pretreatment required.
- Sula oil (Deparaffinization solution): no xylene or other organic solvents involved.
  Thermostable cap is especially designed to cover the reaction well for an optimal condition where lysis buffer
- and the FFPE samples can mix properly during the long processing period.

1000µ

5. The total processing time is within approximately 160 mins.

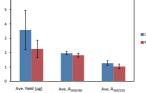
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## Applications

#### The purified RNA can be directly used for downstream application such as:

- 1. cDNA synthesis
- 2. real-time PCR
- 3. RT-PCR 4. Microarrav
- 5. Next-Generation Sequencing
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#### FFPE RNA extraction efficiency

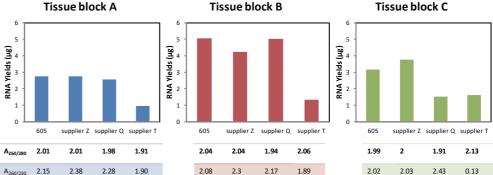


	Rat tissue	Average Yields (µg)	Average A <sub>260</sub> / <sub>280</sub>	Average A <sub>260</sub> / <sub>230</sub>	
Liver Kidney	Liver	3.57±1.38	1.96±0.11	1.26±0.16	
	Kidney	2.25±0.62	1.82±0.12	1.03±0.15	

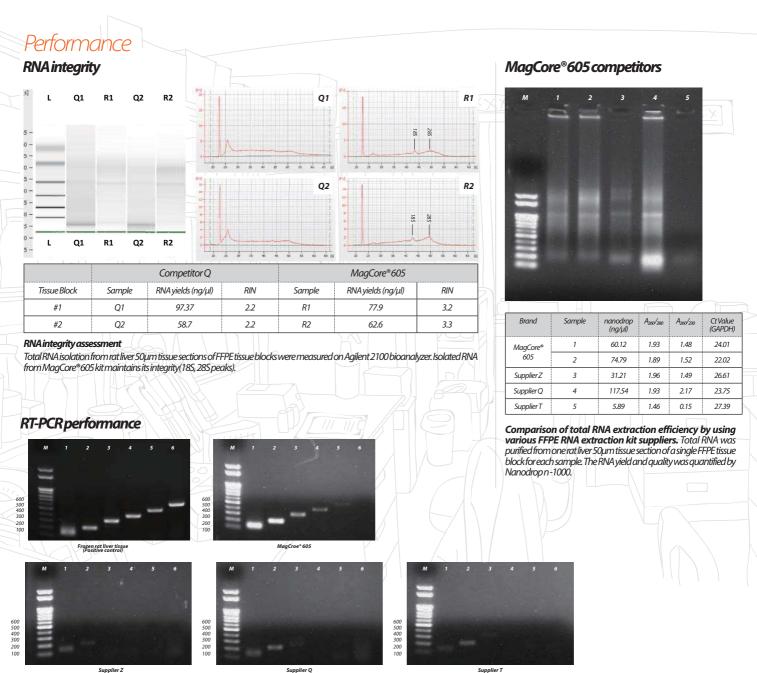
Total RNA was purified from various FFPE rat tissues stored at -80°C for 3 months. RNA yield and quality from one (liver, kidney) 50 µm tissue section per sample was determined by Nanodrop n-1000.

Magnetic beads Separation Well





MagCore®605 retains high RNA extraction efficiency in various rat liver tissue blocks compare to several FFPE RNA purification kit suppliers. The RNA yield and quality was quantified by Nanodrop n - 1000.



**Evaluation of RNA performance in RT-PCR** Five amplicons of different length (118, 206, 312, 400, 503, 613 bp amplicon size) of the gene Rpl4 performed using cDNA derived from FFPE rat liver samples purified by various suppliers.

# MagCore®Automated Nucleic Acid Kits Specification

MagCore®Super/HF16Plus/PlusII			MagCore® HF16 / Compact					
	CatNo.	CatNo.	Durania - Tiran	CatNo.	CatNo.	RunningTime		
Cartridge Code	24preps	72preps	RunningTime	24 preps	72preps			
6005 MagCore® Total RNA FFPE One-step Kit For extraction of total RNA from formalin-fixed paraffin-embedded (FFPE) tissue by using MagCore® System. Contents: Pre-Filled Cartridges, Disposable Tip & Holder Sets, Elution Tubes Shelf life: 12 months								
	MRF-01	MRF-03	140min (without DNase   treatment) 158min (with DNase   treatment)	MRF-01	MRF-03	147min (without DNase I treatment) 165min(with DNase I treatment)		
Enzyme	Selectic	on Guid	de					
Product Contents								
For 36 reactions RNase-Free DNase I (Lyophilized): 1500 Kunitz units x 1 vial, 1 ml RNase-Free Water x 1, 15 ml DNase I Reaction Buffe							DN036	
DNase   Set			For 96 reactions RNase-Free DNase I (Lyophilized): 1500 Kunitz units x 2 vial, 1 ml RNase-Free Water x2, 30 ml DNase I Reaction Buffer					







FDA (10055336) registered and CE-ND certified (Instruments & Reagents) Manufactured in accordance with quality system requirements that comply with ISO 13485 standards and QSR