

Magnetic Tissue RNA Extraction Kit

(F NMPA



1. Description

EmerTher® Magnetic Tissue RNA Extraction Kit is used to extract RNA from tissue samples.

The Kit contains superparamagnetic nanoparticles and an efficient extraction system. The magnetic beads are coated through a unique process enabling strong binding with nucleic acids and easy elution.

The experiment procedure is simple and efficient: 1) after pretreatment, add sample to a lysis-binding solution to enable cell lysis, RNA release and RNA binding to magnetic beads; 2) apply magnetic force enabling easy wash of the beads with buffers; 3) elute RNA from the beads using an elution solution.

Purified RNA can be directly used for subsequent experiments.

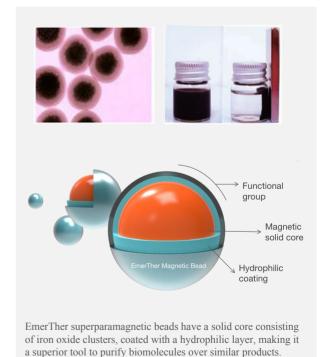
2. Features

High-throughput: fast purification, complete the automatic purification process within 30 min.

Eco-friendly: do not contain hazardous organic solvents, such as phenol or chloroform.

Keep RNA stable: enable stabilization of readily degraded RNA during extraction.

Automation: The extraction procedure can be easily automated after sample pretreatment.



Uniform nano-superparamagnetic bead mass production capacity + optimized technology and reagent formulation:

Reliable and Efficient Extraction,

Originated from Core Technologies

The EmerTher Company
Phone: 1-800-868-0176 (USA)

Email: support@emerther.com Website: www.emerther.com US Site Address: 239 New Rd, Suite A-107, Parsippany, NJ 07054, USA

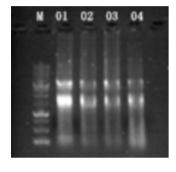


3. Performance

Experiment 1

Representative Extraction Results shown by Gel Electrophoresis and UV Data

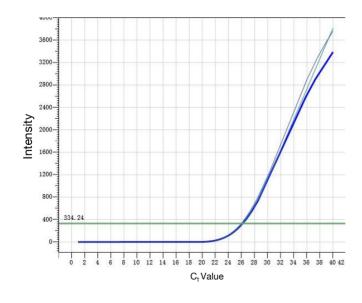
Gel electrophoresis, concentration and purity determination of RNA extracted from four shrimp tissue samples (30 mg each)



Sample No.	OD260/280	OD260/230	Conc. (ng/µL)	Total DNA (µg)
Sample 1	2.09	2.36	210.73	21.1
Sample 2	2.06	2.36	217.41	21.7
Sample 3	2.10	1.57	212.78	21.2
Sample 4	2.08	2.51	190.36	19.0

Experiment 2

Representative Extraction Results shown by PCR Test



PCR data of RNA extracted from rat tails (2 mg each)

Sample No.	C _t values
Sample 1	26.2
Sample 2	26.2
Sample 3	26.0

The EmerTher Company
Phone: 1-800-868-0176 (USA)

Email: support@emerther.com Website: www.emerther.com US Site Address: 239 New Rd, Suite A-107, Parsippany, NJ 07054, USA



4. Components of the Kits

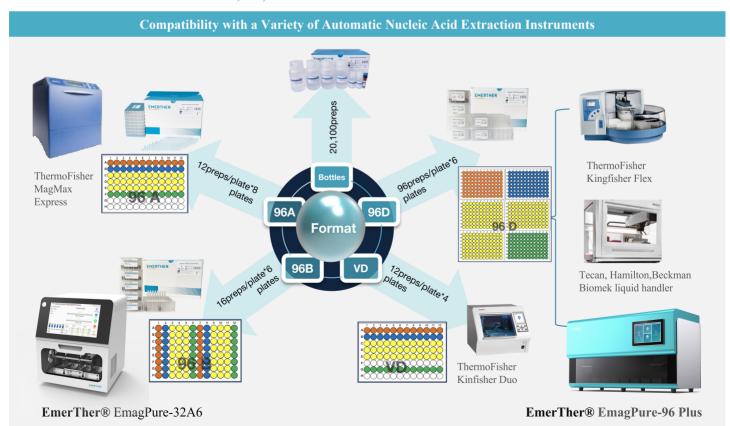
Catalog No.	RE03001 (20 preps)	RE03002 (100 preps)	RE0396B (96 preps)	RE0396D (96 preps)
Format	Bottles	Bottles	96-well plates	96-well plates
Tissue Homogenization Tube	20	100	96	96
Magnetic Bead Suspension	0.4 mL	2 mL	Pre-filled with magnetic beads and extraction reagents, 6 plates; 12 magnetic tip combs(8-	Pre-packed with magnetic beads and extraction reagents, 6 plates;1 magnetic tip combs(96-channel each)
Lysis-binding Buffer	12 mL	60 mL		
Wash Solution I	12 mL	60 mL		
Wash Solution II	12 mL	60 mL		
Wash Solution III	24 mL	120 mL	channel each)	
Elution Solution	2 mL	10 mL		

Pre-treatment of tissue samples:

Transfer 10-40 mg of tissue sample (cut into small pieces) into a 2 mL centrifuge tube, add 300 μL Tissue Homogenization Solution and glass beads, mill the sample using a bead mill homogenizer (40Hz, 60 sec). Centrifuge at 12,000 g for 5 min.

5. Compatible instruments

Prefilled plates contain all necessary extraction reagents, plates and tip combs; ready to be used on most automatic nucleic acid extraction instruments/liquid handlers on the market (e.g. Thermo Kingfisher, Tecan, Hamilton, Beckman Biomek, and our own automatic extraction instruments, etc.).



Prefilled plates available for most automatic nucleic acid extraction instruments on the market.

The EmerTher Company
Phone: 1-800-868-0176 (USA)

Email: support@emerther.com Website: www.emerther.com US Site Address: 239 New Rd, Suite A-107, Parsippany, NJ 07054, USA



Magnetic Bead Core Technology for High Throughput & Automatic Solutions

IVD Manufacturer SINCE 2010

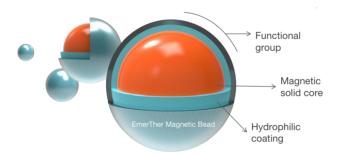
- Nucleic acid extraction Protein purification Nano-magnetic beads
- Automatic nucleic acid/protein purification instruments

Founded in 2010, the EmerTher Company is an IVD manufacturer specialized in the development and manufacture of nano-scale superparamagnetic beads and related products for biomedical applications.

We provide a number of high-quality, cost-effective products and ready-to-use solutions for biological sample collection, nucleic acid extraction, and protein purification, including:

- 3 viral transport media (non-inactivated; inactivated; inactivated without guanidine) and 3 swabs
- 20+ magnetic bead-based nucleic acid extraction kits
- 6 protein purification magnetic beads
- 6 functionalized magnetic beads
- 3 automatic nucleic acid extraction instruments
- 4 manual magnetic separators

With advanced technologies in nano-scale superparamagnetic bead products and in vitro diagnosis, we have helped our customers worldwide to implement automatic nucleic acid and protein extraction/purification procedures in their labs and customized products with high flexibility to meet their special needs.





EmerTher® Magnetic Nucleic Acid Extraction Reagent



EmerTher® EmagPure-96 Plus

The EmerTher Company Phone: 1-800-868-0176 (USA) Email: support@emerther.com Website: www.emerther.com US Site Address: 239 New Rd, Suite A-107, Parsippany, NJ 07054, USA