

Magnetic Tissue DNA Extraction Kit



1. Description

EmerTher® Magnetic Tissue DNA Extraction Kit is used to extract DNA 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, DNA release and DNA binding to magnetic beads;
- 2) apply magnetic force enabling easy wash of the beads with buffers;
- 3) elute DNA from the beads using an elution solution.

Purified DNA can be directly used for a variety of downstream applications.



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

Reliable and Efficient Extraction,

Originated from Core Technologies

The EmerTher Company
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2. Features

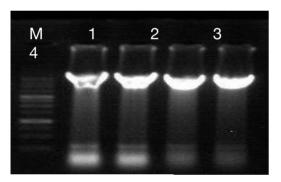
High-throughput: fast extraction of DNA from a variety of tissue samples.

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

Normalization kits are available: can be used to normalize extracted DNA quantity, resulting in consistent DNA concentrations in eluate.

3. Performance

Representative Extraction Results shown by Gel Electrophoresis and UV Data



Gel electrophoresis, concentration and purity determination of DNA extracted from four mouse tails

M: MW marker

Sample No.	OD260/280	OD260/230	Conc. (ng/µL)	Total DNA (μg)
Sample 1	1.94	2.06	186.4	18.6
Sample 2	1.93	2.04	143.5	14.4
Sample 3	2.00	1.20	120.5	12.0
Sample 4	1.99	1.17	118.6	11.8

Sample weight: ~20 mg/each

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4. Components of the Kits

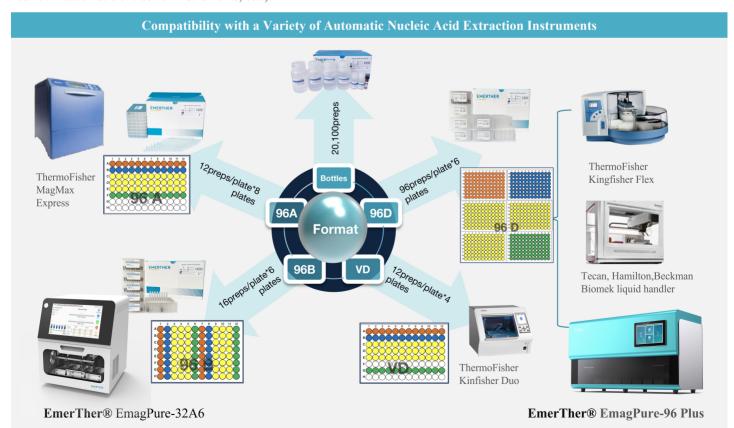
Catalog No.	DE05001 (20 preps)	DE05002 (100 preps)	DE0596B (96 preps)	DE0596D (96 preps)
Format	Bottles	Bottles	96-well plates	96-well plates
PK Dissolving Solution	0.4 mL	2 mL	2 mL	2 mL
Proteinase K	8mg	40 mg	40 mg	40 mg
Tissue Digestion Solution	6 mL	30 mL	30 mL	30 mL
Magnetic Bead Suspension	0.3 mL	1.5 mL	Pre-filled with magnetic beads and extraction reagents, 6 plates;12 magnetic tip combs(8-channel each)	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	15 mL	70 mL		
Wash Solution II	15 mL	70 mL		
Wash Solution III	75% ethanol in wate	r (prepared by user)		
Elution Solution	3 mL	12 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 5,000 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.

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Magnetic Bead Core Technology for High Throughput & Automatic Solutions

IVD Manufacturer SINCE 2010

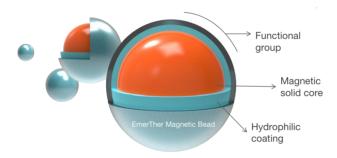
- Nucleic acid extraction Protein purification Nano-magnetic beads
- Automatic nucleic acid/protein purification instruments

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

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