

Magnetic Viral RNA/Total Viral NA Extraction Kit



CE, FDA, NMPA Registered

1.Description

EmerTher® Magnetic Viral RNA Extraction Kit is used to extract viral RNA from swab transport media, sputum, respiratory lavage fluid, serum, plasma, environmental samples, etc.

EmerTher® Magnetic Total Viral NA Extraction Kit is used to extract both viral DNA and RNA from biological samples, so it has a broader application and can be used in molecular diagnosis of both DNA and RNA viruses.

The kits are composed of superparamagnetic nanoparticles and an efficient extraction reagent system. With unique surface modification, the magnetic beads form strong binding with nucleic acids and also enable easy elution. Extracted nucleic acids can be used directly in the subsequent molecular diagnosis, including RT-PCR tests.

2. Applications

Extract DNA & RNA of various viruses

COVID-19, Coronavirus, Flu Virus, Norovirus, HIV, HPV, Enterovirus, SARS Virus, Diarrhea Virus, Swine Fever Virus, HBV, HCV......

3. Features

Rapid Extraction: 10-18 min to complete viral RNA extraction process; no need to use proteinase K for RNA extraction

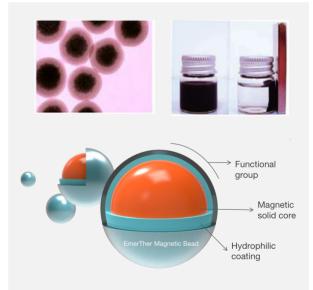
Convenient: ship and store at room temp; shelf time: 2 years

High Extraction Efficiency: extract trace nucleic acids (<10 IU/mL), protect easily degradable RNA, and reduce false negative results

Biosafe: no need for lysis at high temperature, reducing the formation of aerosol and the risk for infection of professional personnel; free of toxic organic reagents such as phenol and chloroform

Reducing Cross-contamination: aerosol reduction can reduce cross-contamination and false positive results

Designed for Automation: Pre-filled plates can be used on Emerther® automatic nucleic acid extraction instruments and are also compatible with most other nucleic acid extraction instruments on the market



EmerTher superparamagnetic beads have a solid core consisting of iron oxide clusters, coated with a hydrophilic layer, making it a superior tool to purify biomolecules over similar products.

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

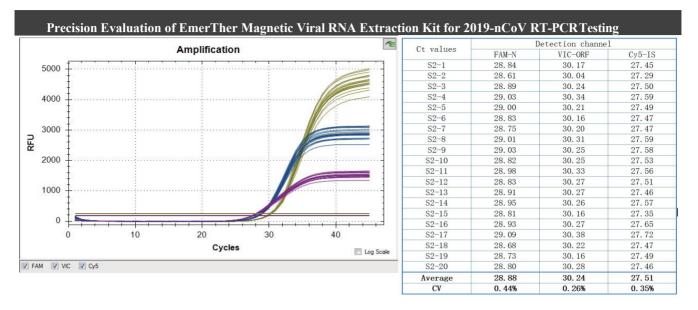
Reliable and Efficient Extraction, Originated from Core Technologies

The EmerTher Company
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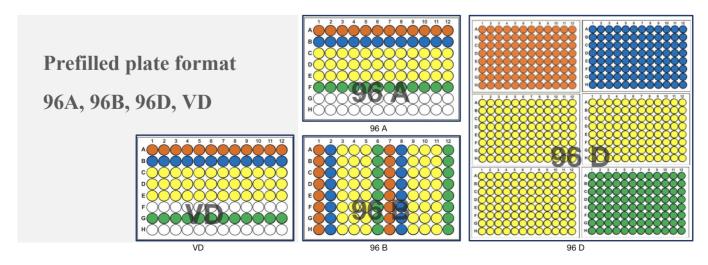
4. Performance



5. Components of the Kits

| Catalog No. | RE01002/RD01002 (100 preps) | RE0196A/RD0196A (96 preps) | RE0196B/RD0196B (96 preps) | RE0196D/RD0196D (96 preps) |
|--------------------------|--------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| Format | Bottle | Prefilled plates | Prefilled plates | Prefilled plates |
| Magnetic Bead Suspension | 1.5 ml | | | |
| Lysis-binding Buffer | 60 ml | 8 prefilled 96-well shallow plates, | 6 prefilled 96-deep well plates, | 4-6 prefilled 96-deep well plates, |
| Wash Solution I | 60 ml | | | |
| Wash Solution II | 60 ml | 8 tip combs (12- channel each) | 12 tip combs (8- channel each) | 1 tip comb (96- channel each) |
| Elution Solution | 12 ml | | | |

Prefilled plate format contains all necessary reagents, plates, 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.).

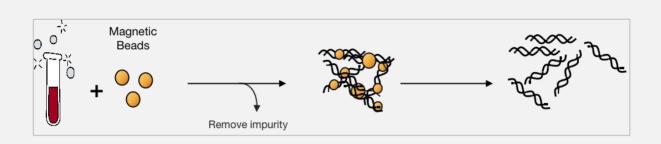


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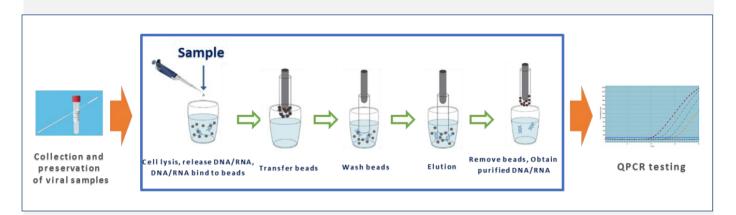


6. Experimental Procedures



Manual extraction procedure

- 1) Add sample to a lysis-binding buffer to enable cell lysis, DNA/RNA release and DNA/RNA binding to magnetic beads;
- 2) Apply magnetic force enabling easy wash of the beads with wash solutions;
- 3) Elute DNA/RNA from the beads using an elution solution.



Automatic extraction procedure

- 1) For bottle format: transfer reagents to plates; For prefilled plate format: take out pre-filled plates, remove aluminum cover.
- 2) Add clinical viral samples into individual vials.
- 3) Insert tip combs and place the plates onto an automatic nucleic acid extraction instrument. The instrument will automatically complete the whole extraction process.

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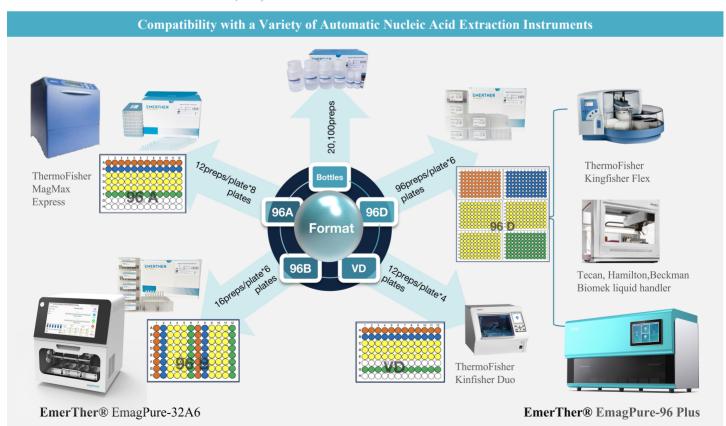


7. Product Pictures



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

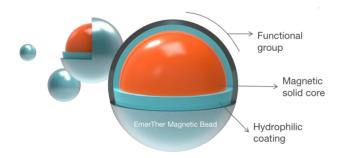
- Nucleic acid extraction
 Protein purification
 Nano-magnetic beads
- Automatic nucleic acid/protein purification instruments

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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