

Image shows 100, 500 and 1,000 reaction kits.

RNAGEM



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RNAGEM utilizes MicroGEM's novel thermophilic proteinase and buffer system to extract total nucleic acids in less than 25 minutes without the need for purification.

Sample Types: solid tissue, cell culture, single-cell & exosomes

Downstream applications: PCR, RT-PCR, RT-qPCR, LAMP & RT-LAMP, Nanostring

Key advantages:

- Single-Tube Nucleic acid extraction in less than 25 minutes
- Simultaneous Total Nucleic Acid Extraction genomic DNA, mRNA, long
- non-coding RNA, small non-coding RNA
- No ionic detergents or chaotropic salts
- High nucleic acid recovery Minimal loss of nucleic acids during extraction
- No magnetic beads No spin-columns
- Flexibility suitable for low-throughput to high-throughput extraction with a single protocol
- Easily automated using standard liquid handling solutions
- Minimal plasticware required Reduced waste and supply chain issues

Each kit contains: RNAGEM, BLUE Buffer, DNase I, DNase Buffer, TE Buffer

RNAGEM is for research use only (RUO), not indended for in-vitro diagnostic (IVD) use.

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Typical Workflow

RNAGEM protocols can be scaled up or down as needed.

1.
2.
3.
4.
 5.
6.

- Prepare sample.
- 2. Mix sample and reagents.

Heat mixture at 75°C to activate RNAGEM enzyme.

- (**Optional)** DNA digestion at 37 °C.
- Denature RNAGEM enzyme at 95 °C.

This solution now contains nucleic acid ready for PCR based applications.

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