*RNA*GEM

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

RNAGEM – effortless, simultaneous, total nucleic acid extraction… in minutes not hours.

*RNA*GEM 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: *RNA*GEM, **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

*RNA*GEM protocols can be scaled up or down as needed.

1. Prepare sample.

2. Mix sample and reagents.

3. Heat mixture at 75°C to activate *RNA*GEM enzyme.

4. ***(Optional)*** DNA digestion at 37 °C.

5. Denature *RNA*GEM enzyme at 95 °C.

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

MicroGEM

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