Exymes

# □□□GEM


## Effortless Ultra Fast RNA extraction

RNAGEM uti zes □xy□ □□□□ novel thermophi c p□teinase and buffer system to ext act 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, Nano-string**

### 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

□□□GEM Universal is for research use only (RUO), not intended for in-vitro diagnostic (IVD) use.

# 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 ⊠⊠⊠GEM enzyme.

4. (Optional) DNA digestion at 37°C.
5. Denature ⊠⊠⊠GEM enzyme at 95°C.

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

Each kit contains:

- ⊠⊠⊠GEM
- BLUE Buffer
- DNase I
- DNase Buffer
- TE Buffer