

# RNAGEM

## Effortless Ultra Fast RNA extraction

*RNAGEM utilizes Exymes'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

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



# Typical Workflow

*RNAGEM* 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 *RNAGEM* enzyme.



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



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

Each kit contains:

- *RNAGEM*
- **BLUE** Buffer
- DNase I
- DNase Buffer
- TE Buffer