

RNAGEM

Effortless Ultra Fast nucleic acid 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 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