*RNA*GEM V

Image shows 50 and 1,000 reaction kits.

***Effortless, simultaneous, nucleic acid extraction from DNA and RNA viruses ...* in minutes not hours.**

*RNA*GEM V utilizes MicroGEM's novel thermophilic proteinase and buffer system to extract nucleic acids from viruses in less than 15 minutes without the need for purification.

Sample types: nasal-pharyngeal swabs in saline solution, nasal swabs, buccal swabs & sputum/saliva

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

Key advantages:

- Nucleic acid extraction in less than 15 minutes
- Simultaneous extraction from DNA and RNA viruses
- Single-tube extraction
- 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 V is for research use only (RUO), not indended for in-vitro diagnostic (IVD) use.

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Typical Workflow

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

1. Prepare sample.

2. Mix sample and *RNA*GEM V reagents.

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

4. Denature *RNA*GEM enzyme at 95 ° C.

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

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