

prepGEM Bacteria

Effortless Ultra Fast DNA extraction from a wide range of bacterial samples

Exymes's *prepGEM* Bacteria kit provides a simple automated approach to studying a wide range of microbial cultures. Every aspect of the Exymes method ensures the samples are processed quickly and gently. Minimal sample prep, closed tube processing, and gentle lysis ensure that cross contamination and DNA fragmentation are drastically reduced, making Exymes's extraction process streamlined while preserving the integrity of low abundance species.

Sample Types: colonies, biofilms, liquid cultures, sputum, swabs, soil & stool

Downstream applications: PCR, qPCR, Amplicon Sequencing

Key Advantages:

- Single-tube extraction
- Minimal transfer steps - opportunities for mistakes and contamination are minimized
- Improved community representation in metagenomic samples
- No ionic detergents or chaotropic salts
- 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

prepGEM Bacteria is for research use only (RUO), not intended for in-vitro diagnostic (IVD) use.

Typical Workflow

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



1. Prepare the sample.
2. Mix sample and reagents.



3. Heat to 37°C (Gram +ves only) to degrade cell wall.
4. Heat to 75°C to activate *prep*GEM enzyme.
5. Heat to 95°C to denature *prep*GEM enzyme.



6. DNA is now ready for analysis using PCR-based applications

Each kit contains:

- *prep*GEM
- GREEN+ Buffer
- Lysozyme
- WASH+ Buffer
- Enhancer