*forensic*GEM Sperm

Image shows 100, 500 & 1,000 reaction kits.

Effortless, DNA extraction from sexual assault samples

*forensic*GEM Sperm utilizes MicroGEM's novel thermophilic proteinase and Acrosolv reagent to lyse sperm without the use of qPCR and STR inhibiting chemicals, such as SDS, mercaptoethanol and DTT.

Sample types: semen swabs, stains & liquid semen

Downstream applications: STR, PCR, qPCR

Key advantages:

- Single-tube DNA extraction in 11 minutes
- No need for inhibiting chemicals, such as DTT
- No transfer steps - yield is maximized and opportunities for mistakes and contamination are minimized
- High DNA 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

forensicGEM Sperm is an excellent tool for Y-screening of sexual assault samples prior to differential extraction.

forensicGEM Sperm is for research use only (RUO), not indended for in-vitro diagnostic (IVD) use.

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Typical Workflow

*forensic*GEM Sperm protocols can be scaled up or down as needed.

1. Place or pipette the sample into a thin-walled PCR tube.

2. Mix sample with *forensic*GEM Sperm reagents.

3. Heat mixture to lyse sperm, extract DNA and denature *forensic*GEM enzyme.

4. DNA is now ready for PCR, qPCR and STR analysis.

Each kit contains:

- *forensic*GEM
- **ORANGE+** Buffer
- *Acrosolv*

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