

## forensicGEM Sperm

## Effortless, DNA extraction from sexual assault samples

forensicGEM 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.





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

## **Typical Workflow**

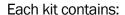
forensicGEM Sperm protocols can be scaled up or down as needed.



- 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.



- forensicGEM
- ORANGE+ Buffer
- Acrosolv



MicroGEM