

# forensicGEM Sperm

## Effortless Ultra Fast DNA extraction for Human Identification

*forensicGEM Sperm* kit uses Exymes'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 inhibitory chemicals, such SDS, mercaptoethanol and 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
- Reduced handling protects the integrity of the sample
- 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 for research use only (RUO), not intended for in-vitro diagnostic (IVD) use.

# Typical Workflow

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



1. Place or pipette the sample into a thin-walled PCR tube or plate.
2. Mix sample with *forensicGEM* reagents.
3. Heat mixture to lyse sample, extract DNA and denature *forensicGEM* enzyme.
4. DNA is now ready for PCR, qPCR and STR analysis.

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

Each kit contains:

- *forensicGEM*
- **ORANGE+** Buffer
- *Acrosolv*