

# Urine Conservation Medium (UCM)

A validated preservative for urinary HPV and human DNA



## COLLI-PEE®

Colli-Pee® is a urine collection device that can be used by men and women for standardized and volumetric collection of first-void urine. The platform consists of variants capturing a range of urine volumes (4 mL to 45 mL) for different application purposes.\*

The device architecture also enables immediate mixing of urine and preservative for adequate stability during transport, storage and processing.



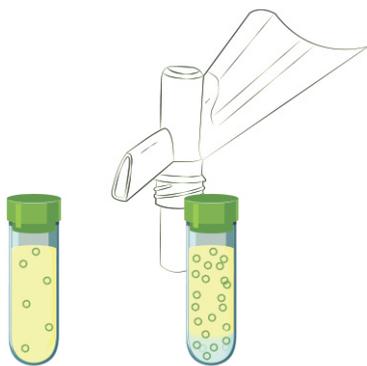
## URINE CONSERVATION MEDIUM (UCM)

- Specifically designed for urine samples
- Non-toxic (suitable for home collection)
- Non-lytic
- 1:3 Preservative to sample ratio for optimal performance

UCM prevents degradation of HPV DNA. After 7 days of storage at room temperature, HPV16 was detected in all samples spiked with 1000 copies/ $\mu$ L of HPV16 plasmids where UCM was added, and only in 25% of the unpreserved samples.

### Storage conditions

- Tubes with UCM before urine collection
  - Colli-Pee® with 20 mL tubes: 12 months (Stability testing 24-months ongoing)
  - Colli-Pee® with 10 mL tubes: 24 months
- Tubes with UCM after FVU collection
  - Short-term storage at room temperature: 7 days
  - Mid-term storage at -20°C: 7 to 90 days
  - Long-term storage at -80°C: Aliquotted into cryovials for up to 12 months



### Clinical applications

Proof of concept studies with commercially available diagnostic (high throughput and genotyping) assays confirm HPV DNA detection in first-void urine collected with Colli-Pee® and stabilized with UCM is feasible and compatible with the assay chemistry.

### Check our proof of concept studies

Vorsters et al<sup>1</sup> showed that the number of HPV DNA and hDNA copies detected after various extraction methods in urine with and without UCM was significantly different ( $P < 0.001$ ).

## HOME SAMPLING

Due to the ongoing pandemic, healthcare organizations have shifted to at-home sampling methods in addition to in-person visits. Usability data shows the device is suited for postal delivery and home-based collection. FVU collected in the Colli-Pee® device pre-filled with UCM can be transported by postal mail at room temperature.

Customized Colli-Pee® kits are under development for home-based urine collection.



\*Some products are in development or not available in all geographic regions. Contact us to know the registration status in your region.

References: 1) <https://pubmed.ncbi.nlm.nih.gov/24916950/>