

The Colli-Pee UCM device is used for the standardized and volumetric collection of first-void urine (FVU) and is available for a range of urine volumes (4 mL-40 mL) for different application purposes.*

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

Advantages of Colli-Pee UCM

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

Colli-Pee UCM prevents degradation of human papillomavirus (HPV) DNA. After 7 days of storage at room temperature, HPV-16 was detected in all samples spiked with 1,000 copies/μL of HPV-16 plasmids where UCM preservative was added, and in only 25% of the unpreserved samples.¹

Storage and transport shelf life

- Colli-Pee UCM has a shelf life of 24 months from the date of manufacture
- Tubes with UCM preservative 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: aliquoted into cryovials for up to 12 months
- FVU collected in the Colli-Pee device prefilled with UCM preservative can be transported by post at ambient temperature.

Clinical application

Proof of concept studies with commercially available diagnostic (high-throughput and genotyping) assays confirm HPV DNA detection in FVU collected with a Colli-Pee device and preserved with UCM is feasible and compatible with the assay chemistry.

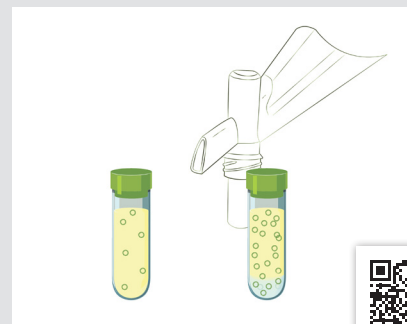
Vorsters et al.² showed that extraction methods tested on FVU with and without UCM preservative had significantly different HPV DNA and hDNA copy numbers detected ($p < 0.001$).

Home collection

Novosanis has developed a Colli-Pee postal kit that includes the device for collection and accessories for safe storage and transport of the sample.

A full standard postal kit comprises the following items:

- A rigid distribution envelope for the Colli-Pee device and all the necessary accessories for self-collection
- A rigid envelope for the return of the collected sample to a clinical laboratory
- A bio-hazard bag and an absorbent tissue, used as a secondary container to prevent contamination of the return envelope, in case of any damage to the collection tube



Check our proof of concept studies



*Some products are in development or not available in all geographic regions. Contact us for more information.

1 Arora A, Jordaens S, Mehta A, et al. (2020). Novosanis. Why urine preservation is needed for molecular cancer biomarker detection. [White paper].

2 Vorsters A, Van den Bergh J, Micalessi I, et al. (2014). Optimization of HPV DNA detection in urine by improving collection, storage, and extraction. *Eur J Clin Microbiol Infect Dis.* 33(11):2005-2014. doi:10.1007/s10096-014-2147-2