

## Porex® Urine Collection Kit

A selection of hydrophilic fiber cylinders that can be used for urine collection. Applicable for collection of midstream urine for STI and UTI testing, as well as first-catch urine for microbiome analysis.

### Samples Included:

Number	Material	Properties	Size	Technology	Thickness (in)
27111	Polyethylene/ Polypropylene	Hydrophilic	10 mm diameter by 45 mm length	Bonded Fiber	0.07 g/cc
31434	Polyethylene/ Polypropylene	Hydrophilic	4 mm diameter	Bonded Fiber	0.08 g/cc

### Recommendations for Assembly and Testing:

Porex hydrophilic polyolefin materials can be tested with press fit in your preferred housing using a 3 – 5% compression on parts.

If testing for early-stage feasibility, Porex recommends testing the 10 mm diameter part (27111) in a 3 mL syringe:

- Remove the plunger from a 3 mL syringe.
- Place the Porex filter in the bottom of the syringe, followed by placement of urine sample on the top. The Porex filter can also be placed into a syringe that already contains a urine sample.
- Place the plunger into the syringe and push the sample through the Porex filter. Although some bypass may occur around the filter edges, this proof-of-concept setup has proven beneficial for our customers in early material evaluation.

### Notes on Performance:

Based on our experience, this hydrophilic polyolefin material is excellent at collecting and filtering low viscosity samples like urine and has also been shown to help normalize viscosity of samples like saliva. Unlike membrane filters, these materials serve as a depth filter which have reduced backpressure and are less likely to clog.