

# URINE TESTING SYSTEM<sup>™</sup>

## PRODUCT OVERVIEW





## Design introduction

For the last 10 years we have worked side by side with healthcare professionals in our research. Together we have challenged every aspect of testing urine at point-of-care.

Our aim has always been to equip Healthcare Professionals with a solution that improves efficacy, provides digital results and a unique user experience.

Our solution is Urine Testing System™, the only closed system, designed for simplicity, engineered to be affordable. We look forward to sharing our story and Award-Winning technology with you.

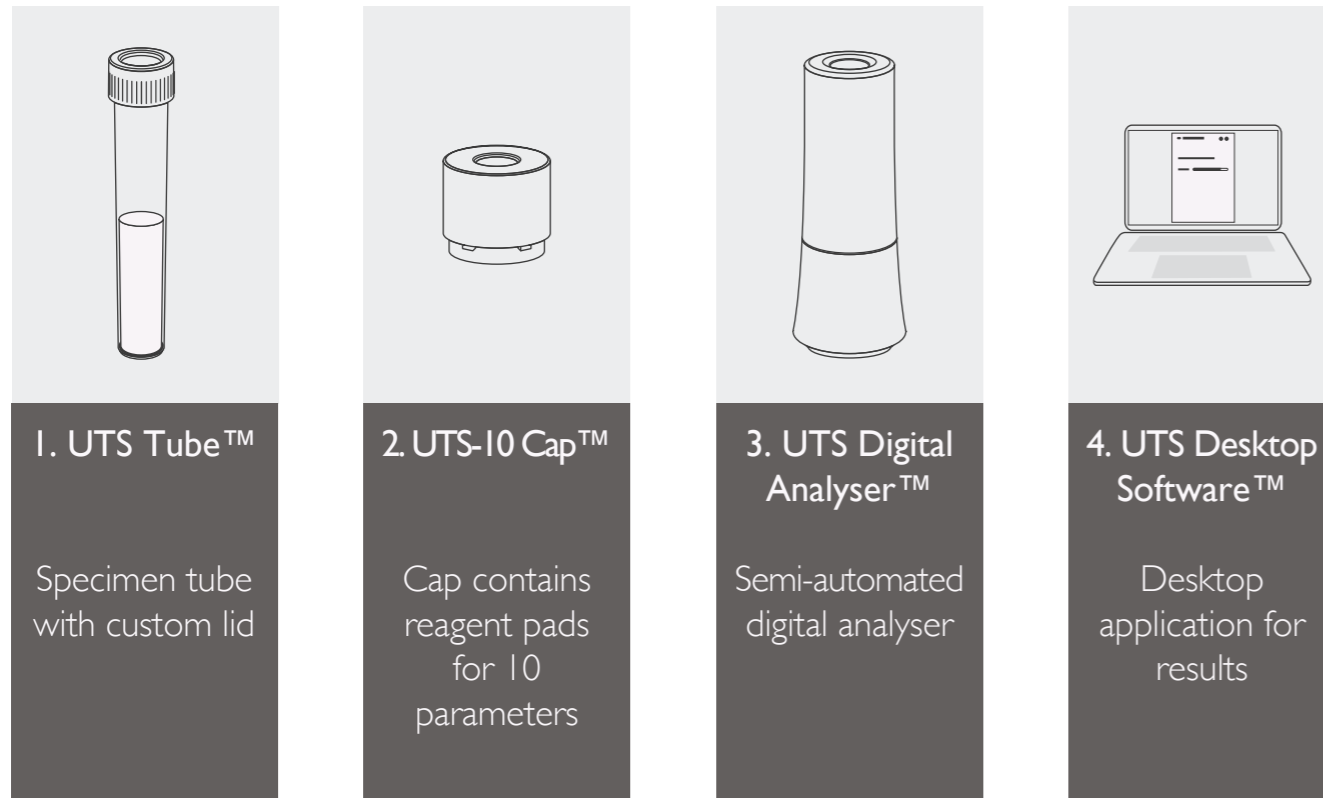
Clinical Design has a bespoke facility in Cornwall, England and has been supported by the European Regional Development Fund and the South West AHSN Digital Accelerator Programme.

## NEW INTEGRATED SYSTEM

Urine Testing System™ is a new integrated system for testing urine at point-of-care.

The unique design ensures accuracy while being easy-to-use and hygienic.

Urine Testing System™ is a CE marked, Class 1 *in vitro* diagnostic device, composed of 4 elements:



The patented UTS-10 Cap™ is connected to a UTSTube™ containing the urine sample which is then loaded into the UTS Digital Analyser™ for automatic analysis of leukocytes, nitrite, urobilinogen, protein, pH, blood, specific gravity, ketone, bilirubin and glucose.

The results are displayed on the UTS Digital Analyser™ LCD screen and on a computer using the UTS Desktop Software™. Results can be saved directly to the patient's electronic health record.



## UTS-10 Cap™ design: Encapsulation of reagent chemicals

To improve efficiency and reliability, the reagent pads have been encapsulated in the UTS-10 Cap™ to facilitate uniform contact with the urine sample and subsequent accurate presentation to the UTS Digital Analyser™.

Each UTS-10 Cap™ is individually sealed under nitrogen in protective foil blisters to ensure consistent test accuracy for the full labelled shelf life. This key design feature prevents the high levels of waste of unused urine test strips following their exposure to ambient humidity.

## Standardised urine testing

UTS Digital Analyser™ utilises reflectance photometry to improve the efficacy, consistency and interpretation of urine testing results at point-of-care.

## Simplified design

Engineered with no moving parts, reliable and easily cleaned. UTS Digital Analyser™ is low maintenance and provides an affordable digital solution for all healthcare providers. It has won the prestigious Red Dot Award and iF Design gold award for its intuitive design and innovation.



reddot award 2019  
winner





## Ease of use

Urine Testing System™ has been designed to be operated with minimal training. Designed to be more hygienic with the digital transfer of data eliminating transcription errors to improve accuracy of results.

## Step-change and evolution from manual urine testing

The design of the UTS-10 Cap™ is an evolutionary digital upgrade of the current tried-and-tested methodology. Urine Testing System™ improves efficacy and consistency using proven reagent chemicals. This eliminates the need for manual timing and colour interpretation.

## Intended use and application

Urine Testing System™ is intended for use by healthcare professionals carrying out in vitro diagnostic urine tests at the point-of-care or centralised laboratory locations. UTS-10 Cap™ tests for 10 parameters, Glucose, Ketone, Protein, pH, Bilirubin, Nitrite, Leukocytes, Specific Gravity, Blood and Urobilinogen.

## FOUR STEPS

1. The patient provides their urine in the UTS Tube™.
2. A healthcare professional connects the patented push-fit UTS-10 Cap™ to the UTS Tube™ containing the urine sample.
3. This is then inverted for three seconds exposing the reagent pads to the urine sample and then loaded into the UTS Digital Analyser™. The digital analysis utilises reflectance photometry to take readings automatically.
4. Digital results are displayed on the UTS Digital Analyser™ and the UTS Desktop Software™. These can be saved into the patient's electronic health record.

## Features & Benefits of Urine Testing System™

- Urine Testing System™ is the only closed urine test with no exposure to the sample, making it more hygienic.
- Urine Testing System™ is an integrated system providing digital testing and seamless transcription of results.
- UTS Digital Analyser™ has no moving parts, requires no cleaning between tests and provides digital results at a lower cost.
- UTS Tube™ is the only container required from point of collection to laboratory, meaning no more decanting.
- UTS 10-Cap™ is individually sealed in foil blister packaging providing reagent integrity and accurate results for the labelled shelf life.

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