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1. Introduction

A single use push-fit testing cap that contains reagent pads for ten (10) parameters, Glucose, Blood, Bilirubin, Ketone (Acetoacetic Acid), Specific Gravity, pH, Protein, Urobilinogen, Nitrite and Leukocytes intended for the *in vitro* diagnostic analysis of analytes in a urine specimen.

For *in vitro* diagnostic use by a Healthcare Professional only.

1.1 Intended purpose.

The UTS-10 Cap[™] is a single use push-fit testing cap for the *in vitro* diagnostic determination of analytes, Glucose, Blood, Bilirubin, Ketone (Acetoacetic Acid), Specific Gravity, pH, Protein, Urobilinogen, Nitrite and Leukocytes in a urine sample. The UTS-10 Cap[™] is intended for use in at-risk patient groups to aid in the diagnosis of renal, urinary, hepatic and metabolic disorders.



The UTS-10 CapTM is designed to connect to the UTS Tube $5mI^{TM}$ which is inserted into the UTS Digital AnalyserTM, a semi-automated in vitro diagnostic reflectance photometry device, designed to support the performance of the UTS-10 CapTM that detects specific urine analytes by presenting the results as digital results on a display screen

The UTS-10 Cap[™] is intended for use by healthcare professionals in a near patient setting only.

1.2 Summary

The UTS-10 CapTM is intended to be used in combination with the UTS Digital AnalyserTM and UTS Tube 5mlTM for the *in vitro* diagnostic examination of analytes in a urine sample.

The UTS Digital Analyser[™] is a semi-automated *in vitro* diagnostic reflectance photometry device, designed to support the performance of the UTS-10 Cap[™] that detects specific urine analytes by presenting the results as digital results on a display screen – Product Name and Code: UTS Digital Analyser[™] (UTSDA01)

The UTS Tube 5ml[™] is a non-sterile single-use specimen receptacle for the containment of a urine sample during urinalysis – Product Name and Code: UTS Tube 5ml[™] (UTSTT02)

2. Test principle and Ingredients

Urinalysis using reagent pads is designed to provide a rapid and qualitative analysis of several analytes in a urine specimen. The UTS-10 Cap[™] contains multiple reagent pads, each of which contains specific chemicals that react with the urine sample. The reactions cause a colour change that can be analysed using the UTS Digital Analyser[™] via automated reflectance photometry. Each reagent pad is tailored to detect a particular analyte through a specific chemical reaction:

Glucose: Glucose oxidase catalyses the oxidation of glucose to form hydrogen peroxide. The hydrogen peroxide thus formed then oxidizes a chromogen on the reagent test pad by the action of peroxidase. Ingredients: Glucose oxidase 430U, Peroxidase 200U, Potassium lodide 12mg.

Blood: The peroxidase-like action of haemoglobin and myoglobin specifically catalyses the oxidation of the indicator by means of the organic hydroperoxide contained in the test paper to give a blue colouration. Ingredients; Cumene Hydroperoxide 12mg, o-Tolidine 35mg





Bilirubin: Azo-coupling reaction of bilirubin with a diazonium salt in an acid medium to form an azo dye. Ingredients: Sodium nitrite 0.733 mg, 2,4-dichlorobenzene diazonium 2.3mg, Sulfosalicylic acid 25mg

Ketone: Legal's test-nitroprusside reaction. Acetoacetic acid in an alkaline medium reacts with nitroferricyanide. Ingredients: Sodium nitroprusside 23mg

Specific Gravity (SG): Ionic solutes present in the urine cause protons to be released from a polyelectrolyte. As the protons are released the pH decreases and produces a colour change of bromothymol blue from blue-green to yellow-green. Ingredients: Bromothymol blue 0.5mg Poly vinyl ether-ALT-maleic acid anhydrous 140.5mg.

pH: This test is based on a double indicator principle that gives a broad range of colours covering the entire urinary pH range. (pH 5.0 to 9.0). Ingredients: Methyl red 0.05mg, Bromothymol blue 0.5mg

Protein: This test is based on the principle of the protein error of a pH indicator. At a constant pH, the development of any green colour is due to the presence of protein. Ingredients: Tetrabromophenol blue 0.34mg

Urobilinogen: The test is based on the Ehrlich's reaction Ingredients: 4-Methoxybenzenediazonium 2.9mg

Nitrite: The test is based on the diazotization reaction of nitrite with an aromatic amine to produce a diazonium salt. It is followed by an azo-coupling reaction of this diazonium salt with an aromatic compound on the reagent test pad. The azo dye produced causes a pink colour change. Ingredients: p-Arsanilic acid 4.5mg

Leukocytes: This test reveals the presence of granulocyte esterases. These esterases cleave an indoxyl ester, and the indoxyl so liberated reacts with a diazonium salt to produce a violet dye. Ingredients: Induced Indole amino acid ester 1.3mg

3. Device procedure

The UTS-10 Cap $^{\rm TM}$ should be used with a urine specimen only.

Only open and place the UTS-10 Cap[™] onto the UTS Tube 5ml[™] if you are ready to run the test immediately - ensure that the UTS Tube 5ml[™] has been appropriately filled with a urine sample to the middle line on the tube and that the UTS[™] Digital Analyser[™] is ready for analysis before proceeding with the procedure below: Step 1. Prior to opening a new Cap blister, Check the expiry date on the UTS-10 Cap™ blister packaging and ensure that the blister packaging is undamaged.

NOTE: Do not use the UTS-10 Cap[™] if there is any damage to its packaging as this may compromise the performance of the test.

- Step 2. Tear open the blister packaging and remove the UTS-10 Cap™.
- Step 3. Place the UTS-10 Cap[™] onto the top of the lid of the UTS Tube 5ml[™] specimen.
- Step 4. Press the UTS-10 Cap[™] firmly down onto the lid of the UTS Tube 5ml[™] specimen until the cap aligns with bottom of the lid
- Step 5. Once the UTS-10 Cap[™] is connected to the tube lid, invert for 3 seconds and ensure that all the reagent pads are fully soaked.
- Step 6. Revert the UTS-10 Cap[™] and tube to the upright position.
- Step 7. When all the above steps are complete, the UTS-10 Cap[™], and tube should be immediately inserted into the UTS[™] Digital Analyser[™] by lifting the top of the analyser dropping the specimen tube in to the lower section and replacing the top to start the analysis.
- Step 8. Results will be displayed on the UTS[™] Digital Analyser[™] screen, record the results before lifting the analyser top.

NOTE: If Analyser top is lifted before results are recorded, the results will be lost, and test will need to be repeated using a new UTS-10 Cap[™].

- Step 9. Lift the UTS[™] Digital Analyser[™] top to remove the UTS-10 Cap[™] and tube, then immediately replace the analyser top.
- Step 10. Dispose of the UTS-10 Cap™ and tube according to local policy.

Continue with test procedure detailed in the User Manual for the UTS Digital Analyser[™] – Product Name and Code: UTS Digital Analyser[™] (UTSDA01)

See Section 9 for additional Specimen Collection and Handling





4. Interpretation of results

Once the UTS Digital Analyser[™] has completed evaluating the UTS-10 Cap[™], both qualitative and semi-quantitative results will be displayed on the digital display screen.

Constituent	Normal / Negative	Abnormal / Trace / Positive
pН	5.0-7.5	7.0 - 8.5
Protein	Neg	Trace ++++
Glucose	Neg	Trace to Pos
Ketones	Neg	Trace, +,++,+++, ++++
Bilirubin	Neg	+, ++, +++
Blood	Neg	Hem Trace - +++
Nitrite	Neg	Trace, Positive
Urobilinogen	Norm / 1	2/4/8
Specific Gravity	1.000-1.020	1.015 – 1.030
Leukocyte Esterase	Neg	Trace, +, ++, +++

(Optional) Results can also be viewed on a computer desktop using the UTS[™] Desktop Software where results can be easily transferred into patient notes by clicking on the copy and paste icon. This will copy the results.

NOTE: Ensure that the results displayed on the digital display screen of the UTS[™] Digital Analyser[™] match those presented on the UTS[™] Desktop Software.

Refer to the User Manual for the UTS Digital Analyser[™] – **Product Name and Code: UTS Digital Analyser**[™] **(UTSDA01)** for detailed instructions on interpreting error messages or warnings displayed on the digital analyser screen.

5. Materials

The UTS-10[™] Cap is intended for use in combination with the UTS Tube 5ml[™] and UTS[™] Digital Analyser[™].

Contents of blister: 1 x UTS-10 Cap™

Devices required to perform a test: Provided: 1 x UTS-10 Cap™

Not Provided: 1 x UTS Tube 5ml™ UTS Digital Analyser™

Specimen Collection Container Consumables (i.e. Transfer Pipette, PPE/ gloves)

Please follow applicable internal procedures in accordance with local or national regulations.

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The UTS Digital Analyser[™] is a semi-automated *in vitro* diagnostic reflectance photometry device, designed to support the performance of the UTS-10 Cap[™] that detects specific urine analytes by presenting the results as digital results on a display screen – **Product Name and Code: UTS Digital Analyser[™] (UTSDA01)**

The UTS Tube 5ml[™] is non-sterile single-use specimen receptacle for the containment of a urine specimen during urinalysis - Product Name and Code: UTS Tube 5ml[™] (UTSTT02)

6. Storage

The UTS-10 Cap[™] should be stored in a cool, clean and dry area, at a temperature within the range of 5 to 30°C.

Do not store the UTS-10 Cap[™] in the refrigerator or freezer. Store away from moisture and heat.

Storage outside of this temperature range may cause degradation of the UTS-10 Cap™ reagent pads, which may compromise the performance of the test.

The expiry date is printed on the UTS-10 Cap[™] blister packaging; the UTS-10 Cap[™] must not be used beyond the date of expiry.

If the blister packaging is damaged and there is discolouration to the UTS-10 Cap[™] do not use.

7. Warnings and Precautions

For *in vitro* diagnostic use by a Healthcare Professional only. Single use.

NOTE: Testing should be performed immediately after opening the UTS-10 Cap[™] blister as prolonged exposure to room temperature and humidity may result in deterioration of the accuracy of the test results.

- Do not store the UTS-10 Cap[™] in the refrigerator or freezer.
- Do not open the UTS-10 Cap[™] blister packaging until you have the UTS Tube 5 mL[™] appropriately filled with the specimen and are ready to perform the test.
- The UTS-10 Cap[™] must be used with the UTS Tube 5ml[™] and lid only.





- The Instructions for Use (IFU) must be read and understood completely before performing the test.
- Handle all specimens as if they contain infectious agents.
- Observe established precautions against handling of urine specimens throughout testing and follow the standard procedures for proper disposal of specimens.
- Wear appropriate protective clothing such as disposable gloves when specimens are handled.
- Used specimen should be discarded according to local or national regulations.
- The urine sample must be allowed to equilibrate to room temperature before testing.
- Store away from moisture and heat
- Please ensure that an appropriate amount of sample is used for testing. Ensure that the UTS Tube 5ml[™] has been filled up to the middle line indicated on the tube. Too much or too little sample size may lead to invalid or no results.
- Do not use the UTS-10 Cap[™] if there are any visible signs of damage to the device or packaging.
- Substances that cause abnormal urine colour may affect the readability of urine testing reagent pads.

Please comply with applicable internal procedures in accordance with local or national regulations.

8. Limitations

As with all point of care tests, definitive diagnostic or therapeutic decisions should not be based on any single result or method. Substances that cause abnormal urine colour may affect the readability of urine testing reagent pads.

Urinary ascorbic acid concentrations as low as 40mg/dl can cause interference in specimens with low concentrations of glucose, blood, nitrite and bilirubin

Glucose: Ketones reduce the sensitivity of the test. Moderately high ketone levels (\geq 40 mg/dL), and ascorbic acid (\geq 40 mg/dL) may cause a false negative for specimens containing small amounts of glucose (100 mg/dL). Chlorine Bleach (\geq 1%), low SG (\leq 1.000) and formaldehyde (\geq 150 mg/dL) may cause false positive results.

Blood: Elevated specific gravity (\geq 1.040) or protein (\geq 1000 mg/dL) in urine may reduce the reactivity of the blood test pad leading to lower results. Microbial peroxidase associated with urinary tract infection may cause false positive results. Ascorbic acid concentrations (>30 mg/dl) may cause false negatives at low levels of blood. Substances that cause

abnormal urine colour, such as drugs containing azo dyes, nitrofurantoin and riboflavin may cause false positive result. Strong oxidizing cleaning agents such as chlorine bleach cause false positive results.

Bilirubin: Metabolites of drugs, such as Pyridium (≥220 mg/dL) and selenium, which give a colour at low pH, may cause false positives. Indican (indoxyl sulfate) can produce a yellow orange to red colour response, which may interfere with the interpretation of negative or positive bilirubin readings. Ascorbic acid (> 30mg/dl) may cause a false negative result.

Ketone: Positive results (trace or less) may occur with highly pigmented urine specimens or those containing large amounts of levodopa metabolites. Some high SG and low pH urine may give false positive result. Phenolsulfonphthalein may cause a false positive result.

Specific Gravity (SG): High-buffered alkaline (pH≥8) urine may cause a lower result, whereas high-buffered acidic urine may cause a slightly elevated result.

pH: If excessive urine remains on the reagent test pad because of an improper test procedure, it is possible that the acidic buffer from the protein testing pad will leach out and affects the pH testing pad, then the pH result may be lower than the actual. This phenomenon is called the "run-over effect."

Protein: False positive results may be found in strongly basic urine (pH≥9). Protein testing should not be performed using turbid urine specimens. Metabolites of drugs such as acetaminophen may cause false positives. Haemoglobin may also cause false positives. Pigments such as bilirubin and azo-containing compounds cause false positive results.

Urobilinogen: The absence of urobilinogen in the specimen cannot be determined. The reagent test pad will react with interfering substances known to react with Ehrlich's reagent, such as p-aminosalicylic acid. Drugs containing Azo Gantrisin (sulfamethoxazol) or high bilirubin may give a masking golden colour. Preservative formaldehyde may cause false negatives. The test is not reliable method for the detection of porphobilinogen.

Nitrite: Ascorbic acid (≥40mg/dL) may cause false negative results with urine containing low levels of nitrite (≤0.05mg/dL). The negative result does not always mean that the patient is free from bacteriuria. Pink spots or pink edges should not be interpreted as positive results. Medications such as phenazopyridine or other azo containing compounds or other dyes cause false positive results.





Leukocytes: The test result may not always be consistent with the leukocyte cell number observed by microscopic examination. High concentration of glucose, high specific gravity, high levels of albumin, high concentrations of formaldehyde or presence of arterial blood may cause decreased test results. False positive results may occasionally be due to contamination of the specimen by vaginal discharge.

NOTE: Any serious incident that has occurred in relation to this device should be reported by the user to the manufacturer and the competent authority of the Member State in which the user and/or the patient is established.

9. Specimen Collection and Handling

The UTS-10 Cap[™] should be used with a urine specimen only. There is no additive present in the UTS Tube 5ml[™].

As per local policy, use an appropriate specimen collection receptacle to collect a freshly voided urine specimen and then using a Transfer Pipette, fill the UTS Tube 5ml[™] with the urine specimen to the middle line indicated on the tube before securely screwing the lid onto the UTS Tube 5ml[™].

For the most accurate results, a first of the day, mid-stream urine sample collected at the point of care and tested within 2 hours is recommended. However, samples taken at other times in the day are acceptable. Allow the test specimen to equilibrate to room temperature before testing.

See Section 7 for Warnings and Precautions before using the UTS-10 Cap[™].

10. Performance Characteristics

Performance characteristics are based on clinical and analytical studies and depend upon several factors: the presence or absence of inhibitory and matrix factors typically found in urine; and the conditions in which the product is used (e.g. temperature and humidity).

Each reagent test pad result represents a range of values. Because of specimen variability, specimens with analyte concentrations that fall between normal levels may give results at either level. Results will usually be within one level of the true concentration.

The following list shows the generally detectable levels of the analytes in contrived urines; however, because of the inherent variability of clinical urines, lesser concentrations may be detected under certain conditions.



10.1 Analytical performance

a. Analytical sensitivity (Detection limit)

A sensitivity study was performed to evaluate the limits of detection for each of the analytes. Negative urine was spiked with standard materials to obtain 3 levels across the measuring range for each analyte concentration. 90 replicates were obtained for each concentration (each sample concentration was analysed 30 times using 3 reagent strip lots). Sensitivity was defined as the cutoff for which \geq 95% of the contrived pooled measurements were trace or the first positive result:

Glucose:	100mg/dL (Glucose)
Bilirubin:	1.0mg/dL (Bilirubin)
Ketones:	5mg/dL (Acetoacetic Acid)
Blood:	10 RBC/µl (haemoglobin)
Urobilinogen:	2 mg/dL
Protein:	15mg/dL (Albumin)
Nitrite:	0.05mg/dL (Nitrite Ion)
Leukocytes:	20 WBC/µI (Intact and Lysed WBCs)

Detection Limit is not applicable to pH and Specific Gravity

b. Analytical specificity

Potential interferents and drugs were evaluated to assess their interfering effect on the performance. Urine sample pools prepared at 3 analyte concentrations (negative, low positive and high positive) were spiked with potential interfering substances at various interference concentrations and analysed in 3 replicates using 3 lots. Interference was defined as change in output of ± 1 colour block between the spiked and unspiked control sample.

The following table shows the substances that did interfere with one more of the analytes tested. Results are expressed as the lowest concentration of interfering substances that exhibit interference and the resulting change in output of colour block:

Analyte	Potential Interfering Substance	Concentration at which Interference was observed	Change in colour block output
	Azo gantrinsin (Sulfamethoxazol)	≥105mg/dL	+1
Ľ	Bilirubin	≥4mg/dL	+1
oge	Formaldehyde	≥150mg/dL	-1
oilin	Nitrofurantoin	≥40mg/dL	+1
	p-Amino salicylic acid	≥750mg/dL	+1
	Phenazopyridine	≥37mg/dL	+1
	Riboflavin	≥25mg/dL	+1
	Selenium	≥220mg/dL	+1



CLINI	CALD	ESI	GΝ

Analyte	Potential Interfering Substance	Concentration at which Interference was observed	Change in colour block output
	Ascorbic Acid	≥40mg/dL	-1
æ	Bilirubin	≥6mg/dL	+1
SOS	Chlorine Bleach	≥1%	+1
Glu	Chlorine Bleach	≥150mg/dL	+1
	Lithium	≥40mg/dL	-1
	Bilirubin	≤1.000 >10mg/dl	+1
bin	p-Amino salicylic acid	≥1500mg/dl	+1
iliru	Phenazopvridine	≥37ma/dL	+1
Ш	Selenium	≥220mg/dL	+1
Н	-	-	-
SG	pН	≥8	+1
	Albumin	≥1000mg/dL	-1
	Ascorbic Acid	≥30mg/dL	-1
	Bilirubin	≥6mg/dL +	+1
	Captopril	≥150mg/dL	-1
роо	Chlorine Bleach	≥0.5%	+1
ä	Formaldehyde	≥150mg/dL	+1
	NaCl (Specific gravity)	≥1.040	-1
	Nitrofurantoin	≥30mg/dL	+1
	Riboflavin	≥50mg/d	+1
	Urobilinogen	≥20mg/dL	-1
	Acetaminophen	50mg/dL	+1
	Bilirubin	≥6mg/dL	+1
_	Haemoglobin	≥5ma/dL	+1
oteii	Nitrofurantoin	≥20mg/dL	+1
P	Riboflavin	≥25ma/dL	-1
	Urobilinogen	≥20mg/dl	-1
	nH	≥9	+1
	Albumin	≥1000ma/dL	-1
	Bilirubin	≥4ma/dl	+1
	Cantonril	>150mg/dl	-1
	Chlorine Bleach	>0.5%	+1
	Formaldehyde	≥150mg/dL	+1
s	NaCl (Specific gravity)	≥1.040	-1
ocyte	Nitrofurantoin	≥30mg/dL	+1
euk	Oxalic Acid	≥45mg/dL	-1
	Glucose	≥1500mg/dL	-1
	Phenazopvridine	≥50ma/dL	+1
	Riboflavin	≥37ma/dl	+1
	Selenium	≥300ma/dl	+1
	Tetracycline	>/10ma/dl	1
		>15ma/dl	-1
	Dilimityen		
les		≥4111g/aL	+
eton	NaCl	≥ roomg/a∟	+
ž	(Specific gravity)	≥1.040	+1

Analyte	Potential Interfering Substance	Concentration at which Interference was observed	Change in colour block output
	Ascorbic Acid	≥40mg/dL	-1
	Bilirubin	≥4mg/dL	+1
(I)	Nitrofurantoin	≥20mg/dL	+1
litrite	Phenazopyridine	≥37mg/dL	+1
2	Riboflavin	≥50mg/dL	+1
	Selenium	≥300mg/dL	+1
	Urobilinogen	≥15mg/dL	+1

c. Precision (repeatability and reproducibility)

Precision testing was done in accordance with CLSI EP5-A3. The repeatability/ reproducibility was determined at three clinical sites, using commercially available control solutions. Studies were performed by medical technicians, using 2 levels of commercially available urine-based control solutions. For within-run precision studies, 10 test strips from 3 different lots at 3 sites were tested (30 tests at each site = 90 replicates per level). For within-day precision studies, 1 test strip a day from 3 different lots was tested at 3 sites for 10 days (30 tests at each site = 90 replicates per level). Conclusion: The results show 100% agreement.

Level 1 control					
		Within-ru	un (n=90)	Within-d	ay (n=90)
ltem	Test Results	Exact agreement (%)	Agreement within +/-one block(%)	Exact agreement (%)	Agreement within +/-one block(%)
Urobilinogen	Normal	100	100	100	100
Glucose	Negative	100	100	100	100
Bilirubin	Negative	100	100	100	100
Ketones	Negative	100	100	100	100
SG	1.02	100	100	100	100
Blood	Negative	100	100	100	100
pH	6	100	100	100	100
Protein	Negative	100	100	100	100
Nitrite	Negative	100	100	100	100
Leukocytes	Negative	100	100	100	100

Level 2 control

	Within-run (n=90)		Within-day (n=90)		
Item	Test Results	Exact agreement (%)	Agreement within +/-one block(%)	Exact agreement (%)	Agreement within +/-one block(%)
Urobilinogen	4 mg/dL	100	100	100	100
Glucose	1000 mg/dL	100	100	100	100
Bilirubin	4 mg/dL	100	100	100	100
Ketones	40 mg/dL	100	100	100	100
SG	1.02	98.9	100	100	100
Blood	200 RBC/uL	100	100	100	100
рН	7	100	100	98.9	100
Protein	100 mg/dL	100	100	100	100
Nitrite	Positive	100	100	100	100
Leukocytes	70 WBC/uL	100	100	100	100





CLINICAL DESIGN

d. Linearity

Samples were created by spiking known concentration of each standard material or by serial dilution of a high concentration urine sample with negative urine. Testing was performed by 3 medical technicians using 3 lots of test strips. Each concentration level was tested in 10 replicates with each lot of test strips. The results are summarised below:

Analyte	Urine sample	Colour block	% Exact match
·	concentration	output	
	Negative/ Norm	0.1	1005 (90/90)
oge	1 mg/dL	1 mg/dL	100 % (90/90)
oilin	2 mg/dL	2 mg/dL	97.7 % (88/90)
lrob	4 mg/dL	4 mg/dL	98.8 % (89/90)
	8 mg/dL	8 mg/dL	98.8 % (89/90)
	Negative	Neg.	100 % (90/90)
e e	100 mg/dL	± (100 mg/dL)	100 % (90/90)
ő	250 mg/dL	+(250 mg/dL)	97.7 % (88/90)
ਿੱ	500 mg/dL	++(500 mg/dL)	98.8 % (89/90)
	1000 mg/dL	+++(1000 mg/dL)	97.7 % (88/90)
		++++(2000 mg/dL)	100 % (90/90)
.E		iveg.	
liruk	2 mg/dL	+	96.6 % (87/90)
ā	2 mg/dL 4 mg/dl	+++	100 % (90/90)
	5	5	100 % (90/90)
	6	6	98.8 % (89/90)
	6.5	6.5	98.8 % (89/90)
Ъ	7	7	97 7 % (88/90)
	7.5	7.5	97.7 % (88/90)
	8	8	98.8 % (89/90)
	8.5	8.5	100 % (90/90)
	1.000	1.000	100 % (90/90)
	1.005	1.005	94.4 % (85/90)
1	1.010	1.010	100 % (90/90)
В С	1.015	1.015	96.6 % (87/90)
	1.020	1.020	97.7 % (88/90)
	1.025	1.025	96.6 % (87/90)
	1.030	1.030	100 % (90/90)
	Negative	Neg.	100 % (90/90)
σ	10 RBC/µL	Trace	100 % (90/90)
300	25 RBC/µL	+(25 RBC/µL)	98.8 % (89/90)
	80 RBC/µL	++(80 RBC/µL)	100 % (90/90)
	200 RBC/µL	+++(200 RBC/µL)	100 % (90/90)
	Negative	Neg.	100 % (90/90)
	15 mg/dL	Trace	98.8 % (89/90)
tein	30 mg/dL	+(30 mg/dL)	98.8 % (89/90)
Pro	100 mg/dL	++(100 mg/dL)	96.6 % (87/90)
	300 mg/dL	+++(300 mg/dL)	97.7 % (88/90)
	1000 mg/dL	++++(1000 mg/dL)	100 % (90/90)
	Negative	Neg.	100 % (90/90)
tes	15 RBC/µL	Trace	100 % (90/90)
kocy	70 RBC/µL	+(70 RBC/µL)	97.7 % (88/90)
Leu	125 RBC/µL	++(125 RBC/µL)	97.7 % (88/90)
	500 RBC/µL	+++(500 RBC/µL)	100 % (90/90)

Analyte	Urine sample concentration	Colour block output	% Exact match
	Negative	Neg.	100 % (90/90)
	5 mg/dL	\pm (5 mg/dL)	100 % (90/90)
nes	15 mg/dL	+(15 mg/dL)	97.7 % (88/90)
Keto	40 mg/dL	++(40 mg/dL)	98.8 % (89/90)
	80 mg/dL	+++(80 mg/dL)	98.8 % (89/90)
	160 mg/dL	++++(160 mg/dL)	100 % (90/90)
0	Negative	Neg.	100 % (90/90)
litrite	0.05 mg/dL	Trace	100 % (90/90)
~	0.05 mg/dL	Pos.	100 % (90/90)

10.2 Clinical Performance

10.2.1 Diagnostic sensitivity

Glucose	75-125mg/dl (Glucose)
Blood	10-15 RBC/µl (haemoglobin)
Bilirubin	0.8-1.0mg/dl (Bilirubin)
Ketone	5-10mg/dl
	(Acetoacetic acid)
Protein	15-30mg/dl (albumin)
Nitrite	0.05-0.1mg/dl (Nitrite ion)
Leukocytes	20-25 WBC/µl (Intact and lysed WBCs)
•	

11. Disposal

Dispose of unused or expired UTS-10 Cap[™], human specimens and consumable waste according to local or national regulations.

Handle all specimens as if they contain infectious agents.

See Section 7 for Warnings and Precautions before using the UTS-10 Cap[™].

12. References

Clinical and Laboratory Standards Institute (formerly NCCLS) GP16-A2, Urinalysis and Collection, Transportation, and Preservation of Urine Specimens; Approved Guideline— Second Edition, Vol.21 No.19

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13. Manufacturer



Clinical Design Technologies Ltd

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14. Troubleshooting and Support

Please contact your local/ regional distributor for assistance.

15. Copyright Notice and Policy Statement

Policy Statement

The information in this manual was correct at the time of printing. However, Clinical Design Technologies Ltd continues to improve products and reserves the right to change specifications, equipment, and maintenance procedures at any time without notice.

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16. Symbols

SYMBOL	DEFINITION
	Manufacturer and Address Details.
ī	Please consult IFU
CE	CE Mark for European Conformity
UK CA	UKCA Mark for Great Britain
IVD	in vitro Diagnostic Medical Device
LOT	Batch Code/Lot Number
REF	Catalogue Reference/ Product Code
$\mathbf{\Sigma}$	Use-by Date/ Expiry Date (CCYY-MM-DD)
1.	Near Patient Testing
UDI	Unique Device Identifier
Σ	Sufficient for / Tests per kit
2	Single use/ Do not Reuse
\bigotimes	Do not use if package is damaged
*	Keep away from sunlight
X	Storage: Upper and Lower Temperature Limits
EC REP	EU Authorised Representative
	EU Importer



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UDI 506069102UTS10C50MG

REF UTSCA01



