Clinitek Urinalysis Testing

Overview of the Instrument Process

The Clinitek is a “reader” measuring the reactions that occur on the test strip. The test table and strip are pulled slowly into the analyser, which then reads the calibration bar. The test table positions the reagent test pads in the “read area” and checks the electronics and signals. It then takes reference readings of the white calibration bar at 6 wavelengths. The light reflected from the test pad is dependent upon the degree of colour change in the pad and is directly related to the concentration of the particular constituent in the urine. The reference and test readings are used to determine the presence and/or semi-quantitative amount of each constituent in the urine sample.



Health & Safety

Ensure gloves are worn when performing testing.

Training

Every user of the device must be trained by a “designated trainer” and prove competent in the use of the device, patient testing and QC requirements before performing any patient testing. Once the competency assessment has been completed, the operator will be added to the instrument by the POCT Quality Manager. Ongoing annual competency is also required by each user. This may be in the form of a Ko Awatea quiz, observation of testing or through successful EQA.

Sample Requirements

- Fresh urine sample - within 2 hours of collection.
- Collected into a clean sterile urine pottle.
- Ensure that the pottle is labelled with the patient’s bradma label - **you need this barcode to scan into the analyser.**
- If a sample cannot be tested within 2 hours, store the labelled sample in a refrigerator immediately. Allow the sample to come to room temperature prior to testing.

Strips

This instrument is **ONLY** compatible with SIEMENS Multistix 8 SG urine dipsticks.
Store strips at room temperature - between 15-30 degrees. The strips can be used until the expiry printed on the test strip container.
Tightly re-cap the container immediately after removing a strip. This ensures remaining strips are not exposed to the environment and humidity which can lead to deterioration.

Tests Measured

There are 8 analytes measured on the strips:
pH, Leucocytes, Nitrites, Protein, Glucose, Ketones, Blood and Specific Gravity

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Maintenance

After each test, wipe the test tray with a damp paper towel.

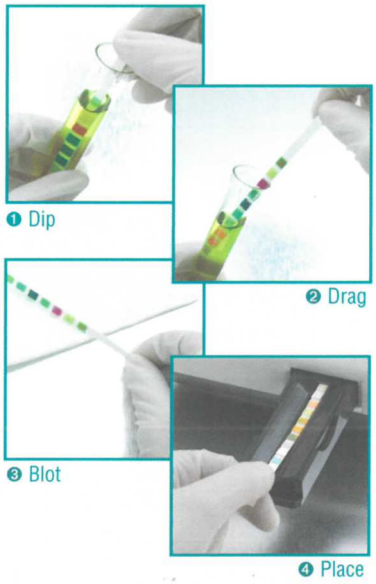
Exterior: Clean the outside of the instrument as required with 75% alcohol wipes (Azowipes). Ensure that the device is turned off first.

Routine Cleaning of Test Table:

- Remove the test table
- Rinse both sides of the table insert under warm running water
- Dry and replace test table

Patient Testing

- Ensure analyser is turned on.
- Select **strip test** icon.
- Scan or enter your Operator ID – This is your staff ID number.
- Select New Patient.
- Scan the barcode from the patients bradma label (episode of care number).
- Scan the lot number of the test strips – use the barcode on the side of the bottle.
- Mix the urine sample thoroughly by swirling.
- Remove the lid of urine pottle and get a test strip ready, recap the test strip bottle.
- Press START when ready to start analysis - Dip the strip into the urine sample, ensure all reagent pads are soaked. The analyser will count down from 8 seconds. This timing is important to obtain accurate results.
- Drag the strip against the edge of container to remove excess urine.
- Blot the edge of the strip on a folded paper towel.
- Place the strip on the test table, reagent pads facing upwards within the 8 second countdown.
- Replace the lid of urine pottle tightly.
- Once finished, remove and dispose of strip and wipe the test table with a damp paper towel.
- Results will print out, attach these to the patient notes.



Recalling Patient Results

- Select **Recall Results**
- Highlight **Recall Patient Tests or QC Tests** and press **Select**
- Select **Patient tests**
- Select **Next**
- Recall Results
    - Search by Patient ID or Date and Time or All Results to get the most recent
- **Highlight a result** and press **Select**
- When complete select **Done**

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Changing the Paper/Stickers

- Open both the white and grey cover by pressing the latches on the back of the analyser.
- Pull the grey release button to the side of the printer roller upwards.
- Insert the new roll, and feed the paper through the printer roller – refer to diagram on the inside of the cover.
- Press the release button back to the closed downward position.
- Close the lid ensuring it locks into position.

Limitations

For diagnostic purposes, the results should always be assessed in conjunction with the patient's medical history, clinical examination and other findings.

Error messages and Troubleshooting

In the first instance, liaise with the POCT Lead User, otherwise contact the POCT Quality Manager – 2453.
Siemens Customer Care NZ: 0800 310 300 for assistance.

Note: The laboratory does NOT provide any after-hours assistance for this device. Send samples to the Lab for testing.

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