Lodestar UTI Test
Quick Start Guide

Llusern Scientific
BRILLIANT MOLECULAR DIAGNOSTICS

1

Switch on the Lodestar DX analyser. When the 'Ready' light is bright green, you can start to prepare the test.

2

Remove one test strip and one diluent tube from the packaging. Place the diluent tube and test strip in the rack provided, ensuring that the blue tube goes into the recess with a blue circle around it. Put the remaining tests back into the fridge immediately.

Note: Unused tests must remain stored at 4 °C.

3

Use a pipette to transfer 10 μl of urine into the diluent tube.

Note: if using a fixed volume 5 μl pipette you will need to transfer 5 μl twice.

Once 10 μl of sample has been added use the pipette to mix the urine and diluent together.

4

Using a new pipette tip, transfer 5 μl of the mixed liquid from the diluent tube into the first tube of the test strip. Use the pipette to mix well.

5

Repeat this process for tubes 2-7, using a new pipette tip each time.

6

Once complete, all tubes should have equal volume and be a uniform blue. All liquid should be at the bottom of the tubes, with no air bubbles. Gently flick the tubes to remove any air bubbles.

7

The test should now be run immediately. Place the test strip into the Lodestar DX analyser ensuring that the tube hinges are facing backwards and to the right.

Press 'Start'. The test will run for 35 minutes. At the end of the run (indicated by a beep), results will be shown on the LED light display.

8

A red LED indicates a '**positive**' result and a green LED indicates a '**negative**' result. If more than one bacterial tube is positive, this could indicate a mixed infection.

9

The positive control in tube 7 should always be **positive** and the negative control in tube 8 should always be **negative**. This indicates the test QC has passed and the results can be accepted. If either control fails, refer to the Troubleshooting Guide.

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The table below shows the bacterial identification for each tube:

Tube	Bacterial identification
1.	*Escherichia coli*
2.	*Enterococcus spp. Or Staphylococcus aureus*
3.	*Staphylococcus saprophyticus*
4.	*Proteus mirabilis*
5.	*Pseudomonas aeruginosa*
6.	*Klebsiella pneumoniae*
+	n/a (Positive control)
-	n/a (Negative control)

Once results have been recorded, remove the test strip and dispose of it as clinical waste.

Note: Do not open the tubes at any time.

Resetting Lodestar DX

You will need to reset the Lodestar DX analyser to run a second test. Press and hold the 'Start' button until you hear a beep. Once the 'Start' button is released all the lights on the device will flash and you will hear three beeps in a row. The green 'Ready' light will then illuminate to indicate the analyser is reset.

Warnings and precautions

- The test strips will reach 65 °C and will be hot to touch.
- **DO NOT** open the lid of the analyser during the test.
- **DO NOT** switch off the analyser during the test.
- **DO NOT** open the tubes once they are in the analyser.
- **DO NOT** leave the analyser switched on and unattended overnight.

Cleaning

Do not spray the analyser when cleaning, as this will damage the analyser.
Only use wipes lightly dampened in water/detergent/disinfectant for cleaning and disinfection. To disinfect the analyser, use conventional solvent-free surface disinfectants, or alcohol based substances such as 70% isopropyl alcohol.

Disposal requirements

All test strips should be disposed of according to local and national regulations. **Never open a test strip after it has been run on the analyser. Opening a test strip after use may cause contamination for future testing.** Used and unused test strips should be disposed unopened with clinical waste. **DO NOT** dispose of surplus assay solution in drains. For full details see the Safety Data Sheets at **www.llusern.co.uk**

Technical support

Please contact your distributor in the first instance who will be able to provide you with support.

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