

Using Rapid fFN® Controls for Verification of the Rapid fFN® for the TLi_{IQ} ® System



PRE-01303-001 Rev. 002 © 2021 Hologic, Inc. All rights reserved



The protocol is designed to establish and verify the performance of the TLi_{IQ}[®] System using Rapid fFN[®] Controls upon initial installation of the system.

The Rapid fFN for the TLi_{IQ}[®] System is an *in vitro* diagnostic device for the detection of fetal fibronectin in cervicovaginal secretions.



Summary and Explanation

The Rapid fFN[®] Controls are Quality Control samples of known values and provide a means of meeting the requirements of:

- 1. The Clinical Laboratory Improvement Amendments (CLIA)
- 2. Laboratory regulatory agencies for instrument performance verification.





- Please read through this protocol before beginning analyzer setup and verification. Running the daily QC, liquid controls, twenty samples (using the staggered timing guide) takes a minimum of three hours.
- Follow universal precautions and institutional guidelines for the handling of potentially infectious materials, including the use of protective gloves.
- *NOTE: follow the warnings indicated in the Rapid fFN[®] Controls package insert.



Storage Conditions

• Store Rapid fFN° Controls samples between $2^{\circ}C - 8^{\circ}C$.



Materials Needed

- 1. Rapid fFN Cassettes
- 2. Rapid fFN Control Kit (x2)
- 3. TLi_{IQ} QCette®
- 4. Pipette capable of delivering 200 µL (microliters)
- 5. Disposable pipette tips
- 6. Laboratory wipes
- 7. Gloves
- 8. Timer
- 9. Permanent marker





Reference Documents

- TLi_{IQ}[®] System Verification with Rapid fFN[®] Controls
- TLi_{IQ}[®] System Verification Results Table

Place System Calibrator label here	Place QCette label here Sample 1	Place Negative Control label here Sample 2
Place System Calibrator label here	Pisce QCette label here Sample 1	Place Negative Control label here
Place Positive Control Label Here	Piace result label here	Place result label here
mple 3	Sample 4	Sample 5
ce result label here	Place result label here	Place result label here
REMINDER: one sample will be "Invalid"		
System Verification 88190-001 Rev 1		Page: ·
	Je 3 1 result label here RE atem Verification 18130-001 Rer 1	Jie 3 Sample 4 result label here Place result label here REMINDER: one sample will be stem Verification 82150-001 Rev 1



Use a second box of Rapid fFN[®] Controls, separate from the box used to calibrate cassettes, and the documents provided to verify your TLi_{IQ}[®] System.

***NOTE:** follow the warnings indicated in the Rapid fFN Controls package insert.



- Remove the box of Rapid fFN[®] Controls from the refrigerator.
- Roll the Rapid fFN Controls gently between the palms to mix.
- Each sample takes 20 minutes incubation plus 2-3 minutes of actual analysis
- It is most efficient to set the system to external incubation. This allows the operator to have time-staggered samples by incubating in cassettes on the lab benchtop while another cassette is being read by the analyzer.



- To set **external incubation**, perform the following steps:
 - 1. Go to fFN Main Menu (press ESC to go to this screen)
 - 2. Use \downarrow to go to the next page
 - 3. Press 6 CHANGE SETUP
 - 4. Press 3 INCUBATION MODE
 - 5. Press 2 to set as EXTERNAL INCUBATION
 - 6. Press ENTER to accept this choice
 - 7. Press ESC to return to fFN Main Menu



- Set TLi_{IQ}[®] to external incubation. Confirm AUTOPRINT is on.
- Assemble materials for testing: negative fFN control, positive fFN control, fFN cassettes, pipette and tips, laboratory wipes or gauze and gloves.
- Each sample will be tested using 1-TEST PATIENT from the fFN main menu.
 Press ESC to return to fFN main menu. Press 1 to select this mode. Enter
 USER ID and press ENTER.
- Enter the last 2 digits of the CASSETTE LOT# and press ENTER.



- Enter the sample ID#. Use the numbers 1-20 to designate each tube for testing. Start with tube 1. Enter 1 and press ENTER.
- Test 5 negative controls, followed by 10 positive control samples, and then another 5 negative samples or use the order specified by the Lab Director
- The analyzer should display the following message: EXTERNAL INCUBATION WHEN TIME COMPLETE INSERT CASSETTE
- Unwrap and then label the cassette with the sample ID using a permanent marker. Prepare to pipette the sample; place a clean tip on the pipette.



- Pipette 200 µL of sample and add sample immediately to the well of the cassette. Do NOT insert the cassette into the analyzer.
- Start the timer by pressing the timer START/STOP button. The timer will not be touched again until the correlation sample testing is complete.
- Eject the pipette tip and load a clean tip onto the pipette in preparation for the next sample (#2)
- When the timer reaches almost six minutes, unwrap another cassette.
 Label as "2".



- When the timer reads six minutes, aspirate 200 µL of sample 2 into the pipette tip. Add sample immediately to the well of the cassette. Leave on the benchtop.
- Continue this process of labeling a cassette, pipetting a new sample into the cassette (and leaving it to incubate on the benchtop), and discarding the used pipette tip every six minutes.
- All 20 samples can be set up in this staggered manner or sets of 4 or 5 can be set up in a staggered manner with the same six-minute separation between samples.

To simplify this method of staggered sample testing for all 20 samples, use the timing guide found in the documentation provided by Hologic. The guide will help remind you when samples need to be pipetted into specific cassettes and when the cassettes are ready to be read.

*NOTE: Cassettes must be read within twenty minutes of having samples pipetted into their wells. Prolonged incubation may result in an erroneous result.



As the cassettes are read by the TLi_{IQ} Analyzer, the results will print out via the label printer. Affix the labels in consecutive order to the TLi_{IQ} System Verification Results document, in Appendix I.





Critical: Change TLi_{IQ}® Back to Internal Incubation

- To set **internal incubation** perform the following steps:
 - 1. Go to fFN Main Menu (press ESC to go to this screen)
 - 2. Use \downarrow to go to the next page
 - 3. Press 6 CHANGE SETUP
 - 4. Press 3 INCUBATION MODE
 - 5. Press 2 to set as INTERNAL INCUBATION
 - 6. Press ENTER to accept this choice
 - 7. Press ESC to return to fFN Main Menu





The laboratory director or designee will determine if the verification process is acceptable. Retain all records of this verification.

If you have questions regarding billing, invoices or shipment of product please contact Customer Support at 1 (800) 442-9892.



Technical Support and Kit Information

Technical Support:

Hologic, Inc. PHONE: 1-800-442-9892 EMAIL: TechSupport@hologic.com

