

iSTAT1: Electronic Simulator Quality Check Procedure

Purpose: i-STAT1 is tested with Electronic Quality Checks using an Electronic Simulator to confirm analyzer performance.

Electronic Simulator Quality Control Regimen.



- Once every 24 hours when instrument not in use.
- Checked prior to use with each patient
- Every 8 hours when instrument is in use.

Note: Each i-STAT1 analyzer has a designated Electronic Simulator Quality Control device (EQC). Use the appropriate EQC with each of the analyzers.

ELECTRONIC SIMULATOR - Analyzer Performance Verification

1.	Obtain Electronic Simulator from i-STAT storage box for the i-STAT1 analyzer.						
2.	Press [ON].						
3.	Press [MENU];						
4.	Press [3-Quality Tests];						
5.	Press [4-Simulator].						
6.	Scan or Enter Operator ID. Repeat.						
7.	Scan or Enter Simulator ID.						
8.	Insert Electronic Simulator tab into the handheld analyzer. The □□ is face up. “Contacting Simulator” and “Simulator Locked” message appears on the screen. Electronic Simulator time is 120 seconds.						
9.	Read screen to confirm Electronic Simulator PASS / FAIL display message.						
	<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 40%;">If</th> <th>Then</th> </tr> </thead> <tbody> <tr> <td>PASS is displayed on the Analyzer screen (after using the external Electronic Simulator),</td> <td> <ul style="list-style-type: none"> • Remove the Electronic Simulator after the LCK message disappears from the display screen. • Use the Analyzer as required. </td> </tr> <tr> <td>FAIL is displayed on the analyzer screen,</td> <td> <ul style="list-style-type: none"> • Repeat the procedure with the same Electronic Simulator. • If FAIL is displayed a second time, repeat the procedure with a different external Electronic Simulator. • If FAIL is displayed a third time, do not use the i-STAT1 analyzer. • Contact area supervisor or POCT Technologist email POCTLab@cw.bc.ca local 7521. </td> </tr> </tbody> </table>	If	Then	PASS is displayed on the Analyzer screen (after using the external Electronic Simulator),	<ul style="list-style-type: none"> • Remove the Electronic Simulator after the LCK message disappears from the display screen. • Use the Analyzer as required. 	FAIL is displayed on the analyzer screen,	<ul style="list-style-type: none"> • Repeat the procedure with the same Electronic Simulator. • If FAIL is displayed a second time, repeat the procedure with a different external Electronic Simulator. • If FAIL is displayed a third time, do not use the i-STAT1 analyzer. • Contact area supervisor or POCT Technologist email POCTLab@cw.bc.ca local 7521.
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10.	Replace Electronic Simulator in appropriate storage box.						

REFERENCES:

i-STAT1 System Manual. Abbott Point of Care Inc. Abbott Park, IL 60064 USA 20 JAN 2012

Medical Approval: Dr Benjamin Jung

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REVISION & APPROVAL LOG

Version	Revision Type	Description of Change	Revision Date	Technical Approval	Medical Approval
1.0		New document	25 Nov 2013	Elvira Kozak	Dr. Cathy Halstead
1.1	Minor	Document title and number change. Upload to QMS document control	22 Dec 2016		Dr. Benjamin Jung
1.2	Minor	Reformatted, updated POCT contact	June 21, 2019	Calvin Lee	Dr H. Vallance

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