

## Nova Statstrip Lactate: Quick Reference Guide



**Fetal Scalp Lactate Cart Assemble equipment & supplies Confirm Lot # & expiry dates:**

- Capillary tube (Fetal Scalp kit)
- NOVA STAT LAC Test Strips (*Open vial is 90 days*). **Write date on vial.**
- NOVA STAT LAC Quality Control solutions Level 1 & Level 2. (*Open vial is 30 days*). **Dated by POCT-LAB.**
- NOVA STAT LAC meter – confirm date & time is correct.

**NOVA Stat Strip Lactate Quality Control (QC) is performed on Dayshift @ 8 am q. 24 hr.**

**QC is performed within 24 hours prior to a patient test:**

- QC solutions - Level1 (Green); Level 2(Blue).
- Document QC results onto the Fetal Scalp Lactate (FSLAC) Form A.

**Patient Testing is with a physician order:**

- Proceed if QC Levels 1 & 2 are within range for NOVA STAT LAC
- Patient is identified – name, date of birth, medical record number. Attach Patient label on FSLAC Form A.
- NOVA STAT LAC test result is documented on the FSLAC Form A, and patient chart (fetal monitoring tape, nursing partogram).
- Include date/time of collection, operator ID on Form A, on patient chart.

**Clinical Guidelines for Delivery**

**If the Fetal Scalp Lactate is:**

Less than (<) 4.2 mmol/L

FS LAC is **Normal**

4.2-4.8 mmol/L

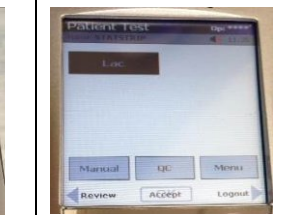
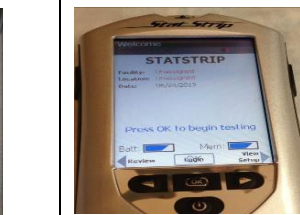
**Repeat FBS collection within 30 minutes**

Greater than (>) 4.8 mmol/L

**Delivery** is indicated

**Note: Repeat FSL on same sample collection to verify result if indicated.**

### Patient & QC Test Preparation - Steps 1-5



**1 CHECK Base Light**  
 Green light – full charge  
 Amber light - partial charge  
 Front - NOVA LAC  
 Back - extra battery

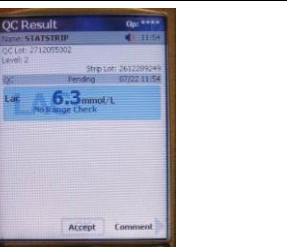
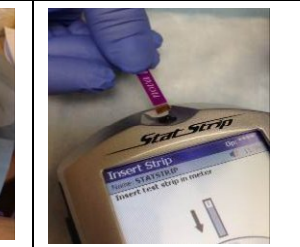
**2. REMOVE NOVA LAC from Base Charger**  
 Unit is wall mounted by Fetal Scalp Lactate Cart  
**Replace battery in meter every 6-8 hours.**

**3.PRESS ON/OFF** button  
**CHECK** Date/ Time  
 Battery Level  
 Press "Logout" to delete previous OPID if required  
 Press "Login"

**4.Enter Operator ID** screen  
 Scan or Manually Enter OP ID = "XXXX" digits  
 Press "Accept" on screen

**5.Patient Test** screen  
 Press "QC" for QC test  
 Or  
 Press "Accept" for Patient test

### Quality Control Test – 6-10 (QC Test is within QC range prior to patient testing.)



**6.Enter (Test) Strip Lot** screen  
 Scan or Manually Enter NOVA LAC test strip lot  
 Confirm strip lot on vial  
 Press "Accept"

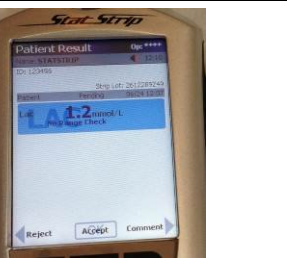
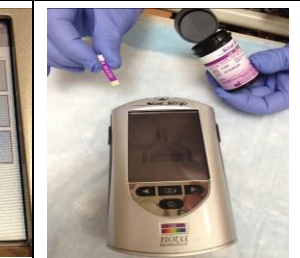
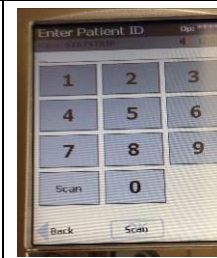
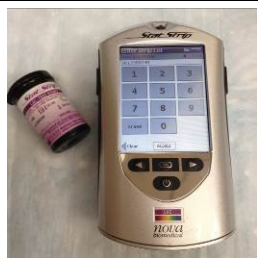
**7.Enter QC Lot** screen  
 Scan NOVA LAC QC Level 1 (or 2)  
 Confirm QC lot on vial.  
 Press "Accept"

**8. Insert (Test)Strip** screen  
 Remove Test Strip from vial & insert into the strip port at the top of meter.  
 Press "Accept"  
 Meter time out is 10 min.

**9.Apply Sample** screen  
 Mix QC vial well.  
 Remove cap & wipe 1<sup>st</sup> drop.  
 Apply using 2<sup>nd</sup> drop QC solution. Recap vial.  
**Result ready in 13 sec.**

**10.QC Result** screen  
 Result displayed with "PASS" or "FAIL" Document on Fetal Scalp Lactate Record.  
 Use NOVA LAC only if QC within range.

### Patient Test – Steps 11-15



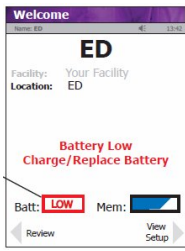
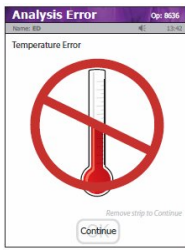


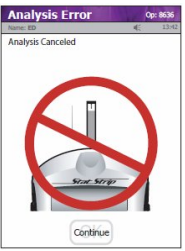
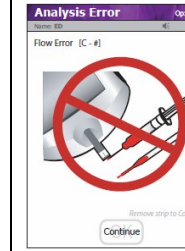
**11.Enter (Test) Strip Lot** screen  
 Scan or Manually Enter NOVA LAC test strip lot  
 Confirm strip lot on vial  
 Press "Accept"

**12.Enter Patient ID** screen  
**Identify Patient**  
 Name, DOB, MRN  
 Patient label is on Fetal Scalp Lactate Record Form  
 Manually enter or SCAN Patient ID.  
 Press "Accept"


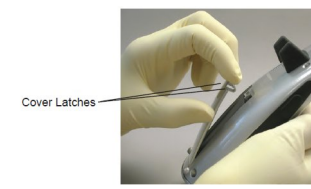
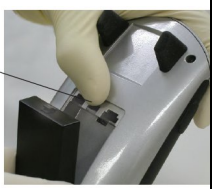

**13.Insert (Test)Strip** screen  
 Remove Test Strip from vial & insert into the strip port at the top of meter.  
 Press "Accept"  
 Meter time out is 10 min.  
**Collect FBS sample** – 2 cm in kit capillary tube.  
 Wipe capillary tube to avoid contamination.

**14.Apply Sample** screen  
 To apply FBS sample:  
 Tap capillary tube to remove first drop(tissue).  
 Hold the NOVA LAC at a slight upward angle.  
 Tap the capillary tube gently & apply FBS sample to the test strip.  
**Sample volume 0.6 uL**  
**Result ready in 13 sec**

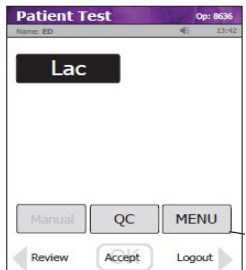
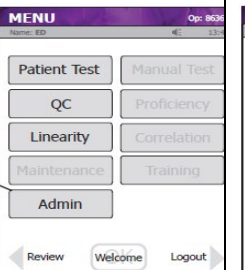
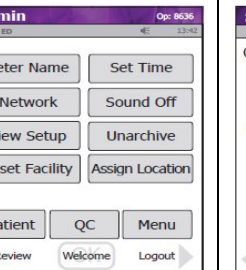
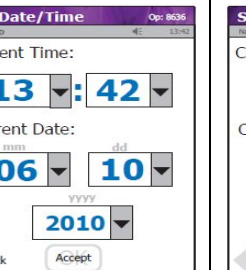
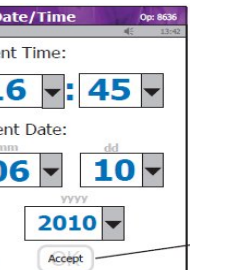
**15.Patient Result** screen  
 Document FBS Lactate result:  
 Fetal Scalp Lactate Record Form.  
 Patient chart (FScalp tape & partogram)  
 Discard biohazard waste.  
**Measuring Range: 0.3 – 20.0 mmol/L**

<b>Troubleshooting Guide - ERRORS</b>						
	<b>Battery Low</b>	<b>Temperature</b>	<b>Bad Sample</b>	<b>Replace Strip</b>	<b>Analysis</b>	<b>Test Strip Flow</b>
<b>SCREEN</b>						
<b>ERROR / ALERT</b>	Battery Screen alert Battery Low	Temperature Error Screen alert <i>Temperature not within range.</i>	Analysis Error - "Bad" sample Screen alert <i>Insufficient or sample with clots.</i>	Can occur after test strip insertion or during a sample analysis	Sample incorrectly drawn into test strip. Insufficient or incorrect sample application.	Sample incorrectly drawn into test strip. Insufficient or incorrect sample application.
<b>SOLUTION</b>	Change battery or place meter on charging base. Extra battery is kept charging on Meter Charging Station at all times.	Meter will only operate within 15°C to 40°C. Return meter to environment within specified temperature range.	Insert a new strip and rerun the test. If the error code persists – repeat with new test strip vial or alternate method.  <b>Recollect using a new site or ensure that original puncture site has free flow of sample – no clots.</b>	Repeat with a new test strip. If error persists – repeat with new test strip vial or alternate method.  <b>Recollect using a new site or ensure that original puncture site has free flow of sample – no clots.</b>		


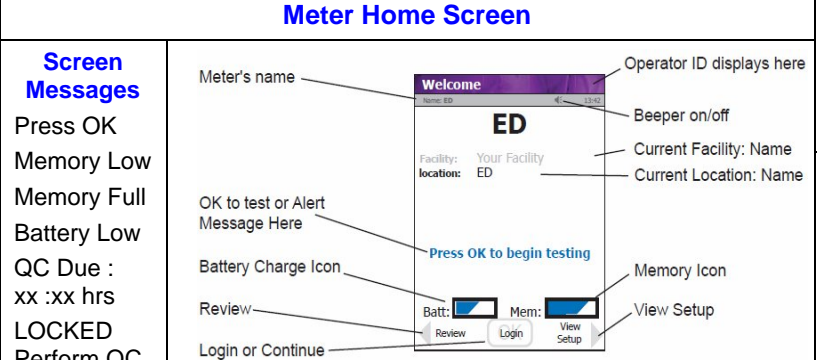

**Battery Replacement : Battery Life approximately 6 – 8 hours.**  
 Press the ON/OFF button to place meter in **SLEEP MODE**. If replacement takes more than 20 seconds adjust date/time.

			
<b>Extra battery</b> – back of Meter Charging Station. Green light - full charge. Yellow light – charging. Replace on Base Unit after use.	<b>Cover Latches</b> – back of meter Push down on the 2 cover latches to release the cover. Remove the battery cover.	<b>Battery Latch</b> - white tab - push up on the battery latch. Remove the drained battery. Replace.	<b>Replace correctly</b> – battery is keyed to allow insertion into bottom of compartment first, then push in top under latch. Replace cover. Snap in place.

**Setting the Date / Time : Post battery change - NOVA Meter has no charge, or replacement of the battery is > 20 sec.**

				
<b>Turn meter on.</b> Welcome Screen – Press [Continue]. Patient Test Screen – Press [Menu].	<b>Menu Screen</b> – Press [Admin].	<b>Admin. Screen</b> – Press [Set Time]	<b>Set Time Screen – To Change Time</b> - Press the drop down arrow for hour & for time.	<b>Set Time Screen – To Change Date</b> - Press the drop down arrow for month, day, & year.

**NOVA STAT METER & CARE**

<p><b>Meter Touch Screen 3-button keypad</b></p> 	<p><b>Meter Home Screen</b></p> 	<p><b>Meter Care</b></p>  <p><b>Caviwipes</b> Wipe once to clean the analyzer. Repeat to disinfect. Allow to soak for 3 minutes. Air Dry.</p>
--	--	--

**For Assistance or supplies contact: Point of Care Technologist. Monday – Friday 604-875-2345 EXT: 7521  
 Chemistry Lab Room 2J17. After hours/weekends ext: 7850**

For training and ongoing competency contact the Women's Hospital Educator. Point of Care testing is laboratory accredited. Minimum ongoing competency requirements – one patient test and two sets of Quality Control annually.

**NOVA Biomedical StatStrip Lactate Hospital Meter. 2012. Nova biomedical Corporation, Waltham, MA 02454-9141**

Medical Approval: Dr Benjamin Jung Version: 1.3 Folder Name: CW\Point of Care\Fetal Scalp Lactate This is a controlled document for CW use only. Any printed copies are uncontrolled unless specified. Please refer to Lab QMS	Medical Approval Date: 26 Dec 2016 Implementation Date: 6/25/2019 11:41:22 PM
---	--