

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer

### Clinical Significance

- The accurate assessment of fetal lung maturity can be extremely important in the treatment of complicated pregnancies.
- Respiratory distress syndrome (RDS) is a dire consequence of premature delivery.
- Laboratory analysis of amniotic fluid can predict susceptibility to RDS.
- Lamellar bodies are concentrically layered, phospholipids-filled vesicles which represent the storage form of surfactant.
- They are released by mature fetal respiratory epithelium into the amniotic fluid that is respired *in utero*.

### Principle

- Lamellar body diameter (1 – 5  $\mu\text{m}$ ) is similar to that of small platelets. Lamellar body counts (LBCs) can be obtained rapidly with the use of the platelet channel of Sysmex *poch-100i* analyzer.
- The Sysmex *poch-100i* is a quantitative automated hematology analyzer for in vitro diagnostic use.
- The *poch-100i* counts the platelets (PLT) using electronic resistance detection and hydrodynamically focused technology.
- Sample is aspirated, measured to a predetermined volume, diluted at the specified ratio, then fed into each transducer.
- The transducer chamber has a minute hole called the aperture.
- Inside the detector, the sample nozzle is positioned in front of the aperture and in line with the center.
- After diluted sample is forced from the sample nozzle into the conical chamber, it is surrounded by front sheath reagent and passes through the aperture center.
- On both side of the aperture, there are the electrodes between which flows direct current.
- PLT suspended in the diluted sample pass through the aperture, causing direct current resistance to change between the electrodes.
- As direct current resistance changes, PLT volume is detected as electrical pulses.
- PLT count is calculated by counting the pulses, and a histogram is plotted by determining the pulse heights.

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

### Work place safety

All laboratory employees are expected to maintain a safe working environment and an injury-free workplace. Laboratory employees are responsible for their own safety, the safety of others and adhering to all departmental and medical center safety policies and procedures.

- For standard precautions and safety practices in the laboratory; see LGM 8000, specifically, but not limited to, equipment safety, proper body mechanics, sharps exposure and proper use of personal protective equipment (PPE).
- For Universal Body Substance precautions, see LGM 8005, specifically, but not limited to, exposure to body fluids.
- For proper hand-washing, see LGM 8010, specifically, but not limited to, proper hand-washing.
- For proper infection control, see LGM 8004, specifically, but not limited to, proper use of gloves.
- For proper handling of regular and infectious waste, see LGM 8006, specifically, but not limited to proper disposal of regular and biohazardous waste.
- For proper cleaning of work area, see LGM 8007 - Cleaning Work Areas.
- For proper handling of chemicals and reagents, see the Chemical Hygiene Plan.

### Clinical Decision Point

- CDP = 65,000 / $\mu$ L.
- All LBC <65,000 / $\mu$ L to be reflexed for confirmatory phospholipid analysis (LS & PG) by TLC (Thin Layer Chromatography).

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

### Specimen Requirement

The following are the specimen requirements for the procedure.

| Specimen  | Required Volume | Minimum Volume |  |
|---|-----------------|----------------|--|
| <ul style="list-style-type: none"> <li>• Amniotic fluid</li> <li>• Vaginal pool<br/> <u>without</u><br/>                     obvious mucus</li> </ul> | 10 mL           | 3.0 mL         |  |

### Unacceptable Specimen:

The following amniotic fluid samples are unacceptable for Lamellar Body testing:

- Bloody (with >5% RBC)
- Mucoïd & Gelled specimen
- Contaminated with Meconium
- Vaginal Pool containing obvious mucus

### Materials Needed

| Equipment  | Supplies  |
|--|---|
| <ul style="list-style-type: none"> <li>• Sysmex <i>poch-100i</i> Analyzer</li> <li>• Vortex</li> <li>• Tube Mixer</li> </ul> | <ul style="list-style-type: none"> <li>• Thermal Paper</li> <li>• Transducer brush</li> <li>• Philips Screwdriver</li> <li>• 12 X 75 mm glass test tubes</li> <li>• Disposable transfer pipettes</li> <li>• Kimwipes</li> <li>• Beige adapter (for sample tubes)</li> <li>• Green adapter (for QC vials)</li> </ul> |

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *pocH-100i* Analyzer, *continued*

**Controls and Calibrator** The following tables list the controls and calibrator used in this procedure, their preparation, storage, and stability.

| Product   | Preparation  | Storage  | Expiration   |
|---|--|--|--|
| <u>SYSMEX<br/>SCS-1000<br/>Calibrator<br/>Kit</u> | <u>Ready to Use</u>  | <u>Store<br/>at 2-8 °C<br/>before and<br/>after<br/>opening.</u> | <u>Unopened calibrators are stable<br/>until the expiration date shown on<br/>the vial.<br/>Once opened, the product is stable<br/>for 4 hours if returned to the<br/>refrigerator promptly after use.</u> |
| <u>Eightcheck<br/>3WP X-TRA<br/>Control Set</u>   | <u>Ready to Use</u>  | <u>Store<br/>at 2-8 °C<br/>before and<br/>after<br/>opening.</u> | <u>Unopened controls are stable until<br/>the expiration date shown on the<br/>vial.<br/>Once opened, the product is stable<br/>for 14 days if returned to the<br/>refrigerator promptly after use.</u>    |
| <u>Amniotic<br/>Pool Positive<br/>Control</u>     | <u>Pool previously tested amniotic<br/>fluid (AF) samples.<br/>Run the pool on <i>pocH-100i</i>.<br/>Use negative AF samples from<br/>Genetics Lab. + previously<br/>tested LBC samples and adjust<br/>the concentration to ~ 70,000<br/>/μL.<br/>Aliquot 2 mL each into a screw-<br/>capped plastic tube.</u> | <u>Store<br/>Refrigerate<br/>d<br/>At 2-10 C</u>                 | <u>Stable 6 months</u>   |
| <u>Amniotic<br/>Pool<br/>Negative<br/>Control</u> | <u>Pool negative AF samples from<br/>Genetics Lab to obtain a<br/>concentration of &lt; ~ 3,000 /μL.<br/>Aliquot 2 mL each into a screw-<br/>capped plastic tube.</u>  | <u>Store<br/>frozen</u>  | <u>Stable 6 months</u>   |

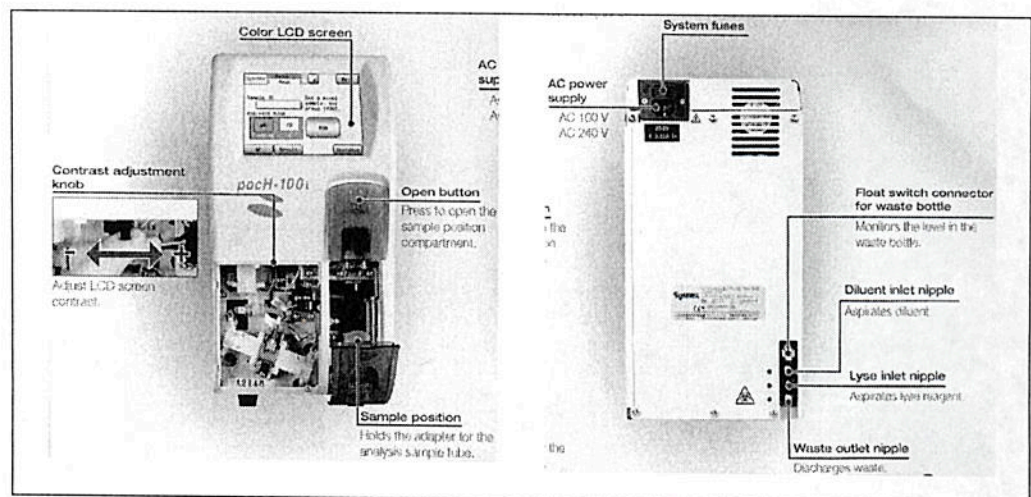
## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *pocH-100i* Analyzer, *continued*

**Reagents** The following tables list the reagents used in this method, their preparation, storage, and stability.

| Reagent                      | Preparation  | Storage    | Expiration  |
|------------------------------|--------------|------------|---|
| pocH-pack D (Diluent)        | Ready to Use | Room Temp. | <ul style="list-style-type: none"> <li>• Unopened packs are stable for 1 year.</li> <li>• Once opened, reagent is stable for <b>60 days</b>.</li> </ul> |
| pocH-pack L (Lysing Reagent) | Ready to Use | Room Temp. | <ul style="list-style-type: none"> <li>• Unopened packs are stable for 1 year.</li> <li>• Once opened, reagent is stable for <b>90 days</b>.</li> </ul> |
| Bleach (5%)                  | Ready to Use | Room Temp. | <ul style="list-style-type: none"> <li>• Use fresh daily.</li> </ul>  |

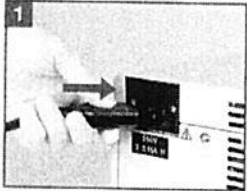
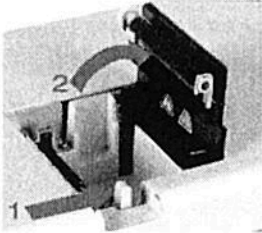
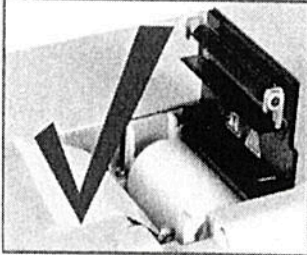
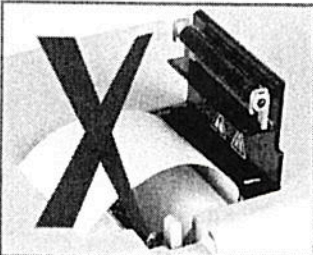
### System Overview

### Parts of Sysmex *pocH-100i* Analyzer



## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

**Startup  
 Procedures**

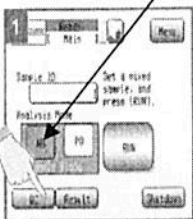
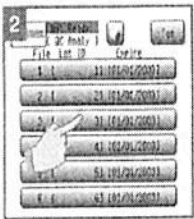
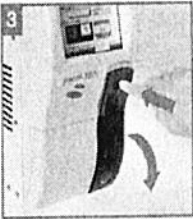

| Step | Action   |
|------|--|
| 1    | <ul style="list-style-type: none"> <li>• Verify the following before powering on:</li> <li>• Check that the power cable is connected.</li> </ul>   |
| 2    | <ul style="list-style-type: none"> <li>• Check that there is sufficient printer paper, replace if needed.</li> </ul>  <ol style="list-style-type: none"> <li>1. Open the paper holder by pushing the knob.</li> <li>2. Lift the printer cover.</li> </ol> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><b>Correct</b></p> </div> <div style="text-align: center;">  <p><b>Incorrect</b></p> </div> </div> |
| 3    | <ul style="list-style-type: none"> <li>• Check waste fluid in waste container, discard if needed.</li> </ul>   |
| 4    | <ul style="list-style-type: none"> <li>• Check and replace reagents if needed.</li> </ul>  |

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

Power On/  
 Self Check

| Step   | Action   |       |         |  |   |  |   |
|--|--|-------|---------|--|---|--|---|
| 1  | <ul style="list-style-type: none"> <li>• Switch power on by pressing the <b>power switch</b> located on the <b>right side</b> of the instrument.</li> <li>• Three automatic rinse cycles are performed and then a background check.</li> <li>• Should any values be out of the acceptable limit, a maximum of two extra background checks will <u>automatically</u> be performed by instrument</li> </ul>  |       |         |  |   |  |   |
| 2  | <ul style="list-style-type: none"> <li>• Review results of <b>background check</b>.</li> </ul> <table border="1" data-bbox="581 674 1317 1241"> <thead> <tr> <th data-bbox="581 674 914 709">If...</th> <th data-bbox="914 674 1317 709">Then...</th> </tr> </thead> <tbody> <tr> <td data-bbox="581 709 914 863">                     PLT count is <math>10 \times 10^3 /\mu\text{L}</math> or less                 </td> <td data-bbox="914 709 1317 863"> <ul style="list-style-type: none"> <li>• print &amp; record the result on the daily PM chart.</li> <li>• proceed to running controls</li> </ul> </td> </tr> <tr> <td data-bbox="581 863 914 1241">                     PLT count is higher than <math>10 \times 10^3 /\mu\text{L}</math> </td> <td data-bbox="914 863 1317 1241"> <ul style="list-style-type: none"> <li>• perform another cycle of Auto Rinse.</li> <li>• if still outside the limits, refer to Section 6 page 71 of the Instruction Manual for more troubleshooting guidance</li> <li>• once background reading is within limits, proceed to running controls.</li> </ul> </td> </tr> </tbody> </table> | If... | Then... | PLT count is $10 \times 10^3 /\mu\text{L}$ or less | <ul style="list-style-type: none"> <li>• print &amp; record the result on the daily PM chart.</li> <li>• proceed to running controls</li> </ul> | PLT count is higher than $10 \times 10^3 /\mu\text{L}$ | <ul style="list-style-type: none"> <li>• perform another cycle of Auto Rinse.</li> <li>• if still outside the limits, refer to Section 6 page 71 of the Instruction Manual for more troubleshooting guidance</li> <li>• once background reading is within limits, proceed to running controls.</li> </ul> |
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| PLT count is higher than $10 \times 10^3 /\mu\text{L}$ | <ul style="list-style-type: none"> <li>• perform another cycle of Auto Rinse.</li> <li>• if still outside the limits, refer to Section 6 page 71 of the Instruction Manual for more troubleshooting guidance</li> <li>• once background reading is within limits, proceed to running controls.</li> </ul>  |       |         |  |   |  |   |
| 3  | <ul style="list-style-type: none"> <li>• To print results of <b>background check</b> (also referred to as <b>Blank check</b>),                         <ul style="list-style-type: none"> <li>• press <b>“Menu”</b></li> <li>• press <b>“Str. Data”</b></li> <li>• then select the file <b>“Blank check”</b></li> <li>• results can first be viewed on screen by using the ← or → arrow.</li> <li>• then press <b>“Print”</b></li> </ul> </li> </ul> <div data-bbox="646 1619 1307 1864"> <p>Press "Menu".</p> <p>Press "Str. Data".</p> <p>Choose stored data by pressing ↑ or ↓. Then press "Print".</p> </div>  |       |         |  |   |  |   |

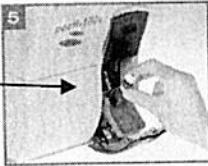
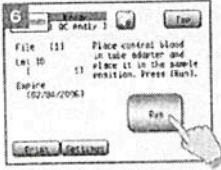
## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

| Step                          | Action   |
|-------------------------------|--|
| Performing<br>Quality Control | <p><b>1</b></p> <ul style="list-style-type: none"> <li>• Run 1 set of EIGHTCHECK Control (Low, Normal, and High) on each day of instrument use.</li> <li>• Remove control vials from the refrigerator at least 15 minutes before use.</li> <li>• <b>Roll</b> 10 times, <b>Turn upside down</b> 10 times, then <b>Roll again</b> for another 10 times.</li> <li>• Examine vial bottom. If there is red cell pellet still formed on the bottom, <b>then repeat</b> the whole mixing procedure!</li> </ul>  |
|                               | <ul style="list-style-type: none"> <li>• Include Amniotic Pool Positive &amp; Pool Negative controls with every run of patient sample.</li> <li>• Negative Pool control is stored frozen. <b>Thaw</b> at <u>least 30 minutes</u> before use to bring to room temperature.</li> <li>• Positive pool control is stored in the refrigerator, bring to room temperature before use.</li> <li>• <b>Vortex</b> well before running.</li> </ul>   |
| <p><b>4</b></p>               | <ul style="list-style-type: none"> <li>• To run <b>QC</b> → from the main screen                             <ul style="list-style-type: none"> <li>• Verify that <b>“WB”</b> mode is selected, if not, press <b>“WB”</b></li> </ul> </li> </ul> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Press "QC".</p> </div> <div style="text-align: center;">  <p>Select analyzing File.</p> </div> <div style="text-align: center;">  <p>Open sample position.</p> </div> </div> <ul style="list-style-type: none"> <li>• Press <b>“QC”</b></li> <li>• Select the <b>QC file</b> (filename is the <b>lot #</b> for Low, Normal, or High control).</li> <li>• Open the sample door (also known as sample position) and insert the <b>green</b> adapter</li> </ul> <div style="text-align: center; margin-top: 10px;">  <p>Insert correct adapter.</p> </div> |



## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

Performing  
 Quality Control

| Step  | Action   |       |         |   |   |   |  |
|---|--|-------|---------|---|---|---|--|
| <p>5</p>  | <ul style="list-style-type: none"> <li>Mix the control 10 more times then <b>REMOVE THE CAP!</b></li> </ul>  <p>Insert control blood and close door.</p>  <p>Press "Run".</p> <ul style="list-style-type: none"> <li>Check the vial for bubbles.</li> <li>Press "Run".</li> <li>At the end of the run, the "Quit" button will appear on screen.</li> <li>Press "Quit" to print results and to go back to main screen.</li> </ul>  |       |         |   |   |   |  |
|   | <table border="1"> <thead> <tr> <th data-bbox="656 884 997 926">If...</th> <th data-bbox="997 884 1398 926">Then...</th> </tr> </thead> <tbody> <tr> <td data-bbox="656 926 997 1142">                     PLT count is within acceptable performance for Low, Normal, and High controls                 </td> <td data-bbox="997 926 1398 1142"> <ul style="list-style-type: none"> <li>Proceed to running patient samples.</li> </ul> </td> </tr> <tr> <td data-bbox="656 1142 997 1772">                     Control results <u>are not acceptable</u> </td> <td data-bbox="997 1142 1398 1772"> <ul style="list-style-type: none"> <li>Verify that the right QC file was selected.</li> <li>Check that there is no cell pellet on the bottom, mix the vial, then re-run control.</li> <li>If still outside the limits, refer to Section 6 page 71 of the Instruction Manual for more troubleshooting guidance.</li> <li>Document all problems and corrective action(s) taken on the QC/QI book.</li> <li><b>STOP!</b> Do not proceed to patient testing until QC is acceptable.</li> </ul> </td> </tr> </tbody> </table> | If... | Then... | PLT count is within acceptable performance for Low, Normal, and High controls | <ul style="list-style-type: none"> <li>Proceed to running patient samples.</li> </ul> | Control results <u>are not acceptable</u> | <ul style="list-style-type: none"> <li>Verify that the right QC file was selected.</li> <li>Check that there is no cell pellet on the bottom, mix the vial, then re-run control.</li> <li>If still outside the limits, refer to Section 6 page 71 of the Instruction Manual for more troubleshooting guidance.</li> <li>Document all problems and corrective action(s) taken on the QC/QI book.</li> <li><b>STOP!</b> Do not proceed to patient testing until QC is acceptable.</li> </ul> |
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## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

### Maintaining Patient and Sample Identity


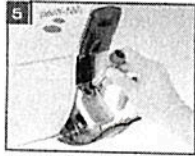
| Step | Action   |
|------|--|
| 1    | <ul style="list-style-type: none"> <li>Check that all patient's information on the worksheet or requisition match those on sample tube(s) (Name, Accession #, MR #, gender, etc).</li> </ul> |
| 2    | <ul style="list-style-type: none"> <li>Always use barcode labels when labeling secondary tubes.</li> </ul>   |
| 3    | <ul style="list-style-type: none"> <li>Use barcode scanner to scan the Accession # for sample ID when running poch 100i.</li> </ul>  |

### Performing Sample Analysis

| Step                   | Action  |       |         |                       |   |                        |  |
|------------------------|---|-------|---------|-----------------------|---|------------------------|--|
| 1                      | <ul style="list-style-type: none"> <li>To run pool or patient sample → from the <b>main screen</b> <ul style="list-style-type: none"> <li>Verify that “<b>WB</b>” mode is selected.</li> <li>Press “<b>Sample ID</b>”</li> <li>the alphanumeric keypad will appear on screen.</li> </ul> </li> </ul> <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>If...</th> <th>Then...</th> </tr> </thead> <tbody> <tr> <td>running Pool controls</td> <td> <ul style="list-style-type: none"> <li>manually type in the ID (Pool).</li> <li>press enter.</li> </ul> </td> </tr> <tr> <td>running patient sample</td> <td> <ul style="list-style-type: none"> <li>scan the barcode ID.</li> <li>press enter.</li> </ul> </td> </tr> </tbody> </table> <div style="text-align: center; margin: 10px 0;"> <p>Press "Sample ID".</p> <p>Enter the ID manually or by bar code reader and press "Ent.".</p> <p>Open sample position.</p> </div> <p><b>NOTE:</b> <u>Always verify</u> that button (<b>WB</b>) is selected.</p> | If... | Then... | running Pool controls | <ul style="list-style-type: none"> <li>manually type in the ID (Pool).</li> <li>press enter.</li> </ul> | running patient sample | <ul style="list-style-type: none"> <li>scan the barcode ID.</li> <li>press enter.</li> </ul> |
| If...                  | Then...   |       |         |                       |   |                        |  |
| running Pool controls  | <ul style="list-style-type: none"> <li>manually type in the ID (Pool).</li> <li>press enter.</li> </ul>   |       |         |                       |   |                        |  |
| running patient sample | <ul style="list-style-type: none"> <li>scan the barcode ID.</li> <li>press enter.</li> </ul>  |       |         |                       |   |                        |  |
| 2                      | <ul style="list-style-type: none"> <li><b>Vortex</b> the pool controls and patient samples for 5-10 sec for a well mixed sample.</li> </ul>   |       |         |                       |   |                        |  |
| 3                      | <ul style="list-style-type: none"> <li>Transfer at least 2 mL to a 12 X 75 mm test tube.</li> </ul>   |       |         |                       |   |                        |  |
| 4                      | <ul style="list-style-type: none"> <li>If processing more than one patient sample, a <b>Pool Negative</b> <u>must</u> be analyzed after each patient to verify no carryover exhibited</li> </ul>  |       |         |                       |   |                        |  |

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

Performing  
 Sample  
 Analysis,  
*continued*

| Step                    | Action   |       |         |                   |  |                         |   |
|-------------------------|--|-------|---------|-------------------|--|-------------------------|---|
| 5                       | <p>The following sampling sequence <b>must be followed exactly</b></p> <ol style="list-style-type: none"> <li>1. <b>Pool Positive</b> Control (PPC).</li> <li>2. <b>Pool Negative</b> Control (PNC).</li> <li>3. Sample 1 (patient)</li> <li>4. <b>Pool Negative</b> Control (PNC)</li> <li>5. Sample 2 (patient)</li> <li>6. <b>Pool Negative</b> Control (PNC)</li> <li>7. Sample 3, (patient), etc.</li> </ol> <p><i>Note: The pool negative sampling sequence is to ensure no carryover exhibited from previous patient or control samples</i></p>   |       |         |                   |  |                         |   |
| 6                       | <table border="1"> <thead> <tr> <th>If...</th> <th>Then...</th> </tr> </thead> <tbody> <tr> <td>PNC result is "0"</td> <td> <ul style="list-style-type: none"> <li>• Proceed to running sample.</li> </ul> </td> </tr> <tr> <td>PNC is giving any value</td> <td> <ul style="list-style-type: none"> <li>• <b>STOP!</b></li> <li>• Do not run sample, perform a "Clean Transducer" cycle.</li> <li>• See page 12 for stepwise procedure on <b>How to clean the transducer.</b></li> </ul> </td> </tr> </tbody> </table>  | If... | Then... | PNC result is "0" | <ul style="list-style-type: none"> <li>• Proceed to running sample.</li> </ul> | PNC is giving any value | <ul style="list-style-type: none"> <li>• <b>STOP!</b></li> <li>• Do not run sample, perform a "Clean Transducer" cycle.</li> <li>• See page 12 for stepwise procedure on <b>How to clean the transducer.</b></li> </ul> |
| If...                   | Then...  |       |         |                   |  |                         |   |
| PNC result is "0"       | <ul style="list-style-type: none"> <li>• Proceed to running sample.</li> </ul>   |       |         |                   |  |                         |   |
| PNC is giving any value | <ul style="list-style-type: none"> <li>• <b>STOP!</b></li> <li>• Do not run sample, perform a "Clean Transducer" cycle.</li> <li>• See page 12 for stepwise procedure on <b>How to clean the transducer.</b></li> </ul>  |       |         |                   |  |                         |   |
| 7                       | <ul style="list-style-type: none"> <li>• <b>Open</b> the sample door (also known as sample position)</li> <li>• Insert the <b>beige sample adapter</b>, load sample and <b>close door.</b></li> </ul> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>4<br/>Insert the correct adapter.</p> </div> <div style="text-align: center;">  <p>5<br/>Insert sample tube and close the door.</p> </div> </div> |       |         |                   |  |                         |   |
| 8                       | <ul style="list-style-type: none"> <li>• Press "<b>Run</b>"</li> </ul> <p>The results will automatically print at the end of the run.</p>  |       |         |                   |  |                         |   |

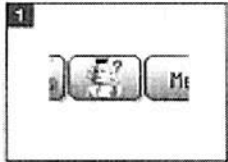
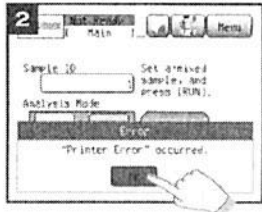
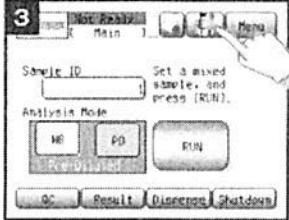
Push the top part to open the door

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

### How to Perform Clean Transducer

| Step | Action  |
|------|---|
| 1    | <ul style="list-style-type: none"> <li>From Main screen at the “Ready” status,                             <ol style="list-style-type: none"> <li>press “Menu”.</li> <li>press “Maint.”</li> <li>select “Clean Transducer”</li> </ol> </li> </ul>                 |
| 2    | <ul style="list-style-type: none"> <li>Fill 12 x 75 mm test tube with <b>concentrated bleach</b>.</li> <li>Push the sample door to open the sample position.</li> <li>Place the tube with <b>bleach</b> on the beige adapter.</li> <li>Press “Execute”</li> </ul> |

### How to fix Error Messages

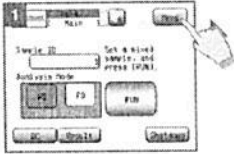
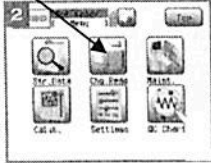
| Step | Action  |
|------|---|
| 1    | <ul style="list-style-type: none"> <li>When an error occurs,                             <ul style="list-style-type: none"> <li>Alarm will sound</li> <li>Alarm button will flash.</li> </ul> </li> </ul>   |
| 2    | <ul style="list-style-type: none"> <li>Error message(s) will appear on screen.</li> <li>In case of multiple errors, they will be displayed on screen ranked by importance.</li> <li>Press the “OK” button on error message screen to stop the alarm and to close error dialog.</li> </ul>  |
| 3    | <ul style="list-style-type: none"> <li>Press the <b>HELP</b> button (also called <b>alarm</b> button).</li> <li>This will show on screen the kind of error that had occurred.</li> <li>Press “Detail” to see instructions on how to fix the error.</li> </ul>                              |

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX pocH-100i Analyzer, *continued*

### How to fix Error Messages, *continued*

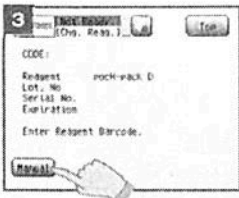

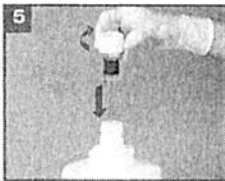
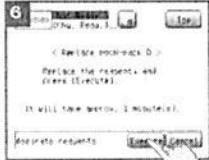
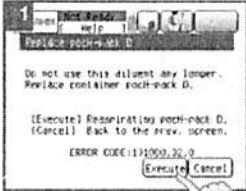
| Step | Action   |
|------|--|
| 4    | <ul style="list-style-type: none"> <li>Refer to Page 67 (Chapter 6) of the Instructions Manual for more troubleshooting guidance.</li> </ul> |
| 5    | <ul style="list-style-type: none"> <li>If unable to solve the problem, call 1(866)-8SYSMEX for technical assistance.</li> </ul>              |
| 6    | <ul style="list-style-type: none"> <li><b>NOTE:</b> In case of power failure during operation, turn the main power switch OFF.</li> </ul>    |

### How to Replace Reagents

| Step        | Action  |            |          |            |             |       |            |             |       |            |
|-------------|---|------------|----------|------------|-------------|-------|------------|-------------|-------|------------|
| 1           | <ul style="list-style-type: none"> <li>Changing reagent from Main screen at the “Ready” status,                             <ul style="list-style-type: none"> <li>press “Menu”.</li> <li>press “Chg. Reag”</li> </ul> </li> </ul> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>  |            |          |            |             |       |            |             |       |            |
| 2           | <ul style="list-style-type: none"> <li>The <b>reagent screen</b> will appear, (for example):</li> </ul> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th style="text-align: center;">Lot. No.</th> <th style="text-align: center;">Expiration</th> </tr> </thead> <tbody> <tr> <td>pocH-pack D</td> <td style="text-align: center;">A8073</td> <td style="text-align: center;">07/14/2010</td> </tr> <tr> <td>pocH-pack L</td> <td style="text-align: center;">A8014</td> <td style="text-align: center;">12/18/2009</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li><b>Choose</b> the reagent to replace</li> </ul> <div style="display: flex; justify-content: center; gap: 20px; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px 15px;">pocH-pack D</div> <div style="border: 1px solid black; padding: 5px 15px;">pocH-pack L</div> <div style="border: 1px solid black; padding: 5px 15px;">Reag. Log</div> </div> |            | Lot. No. | Expiration | pocH-pack D | A8073 | 07/14/2010 | pocH-pack L | A8014 | 12/18/2009 |
|             | Lot. No.  | Expiration |          |            |             |       |            |             |       |            |
| pocH-pack D | A8073   | 07/14/2010 |          |            |             |       |            |             |       |            |
| pocH-pack L | A8014   | 12/18/2009 |          |            |             |       |            |             |       |            |
| 3           | <ul style="list-style-type: none"> <li>Press the appropriate button for the <b>reagent pack to replace</b>.</li> </ul>  |            |          |            |             |       |            |             |       |            |

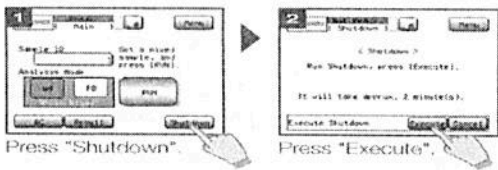
## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

### How to Replace Reagents, *continued*

| Step | Action   |
|------|--|
| 4    | <ul style="list-style-type: none"> <li>The screen below opens up.</li> </ul>  <ul style="list-style-type: none"> <li>Reagent lot &amp; exp. date can be entered manually or by scanning the reagent barcode.</li> <li><b>Scan the reagent barcode</b>, the lot # &amp; exp. date will automatically register on screen.</li> </ul> |
| 5    | <ul style="list-style-type: none"> <li>Press "OK" to confirm the Lot # &amp; exp. date.</li> </ul>  <p>Press "OK".</p>  |
| 6    | <ul style="list-style-type: none"> <li>Insert the container spout kit into the new bottle.</li> <li>Tighten the cap then press "Execute".</li> </ul>   <p>Press "Execute".</p>  |
| 7    | <ul style="list-style-type: none"> <li>If the reagent runs out in the <b>middle of run</b>, an error message will appear on screen prompting the operator to replace the depleted reagent.</li> <li>Press "Execute"</li> <li>Follow steps 4-6 above.</li> </ul>  <p>Press "Execute".</p>   |

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

### Performing Daily Shutdown Procedure

| Step | Action  |
|------|---|
| 1    | <ul style="list-style-type: none"> <li>It is very important to <b>perform shutdown</b> procedure at the end of the day to remove deposits in the tubing.</li> <li>Deposits in the instrument tubing can cause incorrect results or it may damage the instrument.</li> </ul>   |
| 2    | <ul style="list-style-type: none"> <li>Run <b>concentrated bleach</b> as sample to clean the transducer of residual protein.</li> </ul>   |
| 3    | <ul style="list-style-type: none"> <li>Perform shutdown cycle, from Main screen at the “Ready” status,                             <ul style="list-style-type: none"> <li>press “Shutdown”.</li> <li>press “Execute”</li> </ul> </li> </ul> <div style="text-align: center;">  <p>Press “Shutdown”.</p> <p>Press “Execute”.</p> </div> |
| 4    | <ul style="list-style-type: none"> <li>After the shutdown cycle (2 minutes), <b>turn OFF</b> the instrument.</li> </ul>   |

### Reporting/ Results Interpretation

| Step   | Action  |       |         |  |   |   |   |
|--|---|-------|---------|--|---|---|---|
| 1  | <ul style="list-style-type: none"> <li>Lamellar Body Counts are read as <b>PLT</b> on <i>poch-100i</i> .</li> </ul> <table border="1" style="width: 100%;"> <thead> <tr> <th>If...</th> <th>Then...</th> </tr> </thead> <tbody> <tr> <td>PLT count is <math>\geq 65 \times 10^3/\mu\text{L}</math></td> <td> <ul style="list-style-type: none"> <li>Release in LMS, it will be reported as <b>MATURE</b>.</li> </ul> </td> </tr> <tr> <td>PLT count is <math>&lt; 65 \times 10^3/\mu\text{L}</math></td> <td> <ul style="list-style-type: none"> <li>Release in LMS, it will <u>reflex</u> to <b>L/S &amp; PG</b> confirmation by TLC.</li> </ul> </td> </tr> </tbody> </table> | If... | Then... | PLT count is $\geq 65 \times 10^3/\mu\text{L}$ | <ul style="list-style-type: none"> <li>Release in LMS, it will be reported as <b>MATURE</b>.</li> </ul> | PLT count is $< 65 \times 10^3/\mu\text{L}$ | <ul style="list-style-type: none"> <li>Release in LMS, it will <u>reflex</u> to <b>L/S &amp; PG</b> confirmation by TLC.</li> </ul> |
| If...  | Then...   |       |         |  |   |   |   |
| PLT count is $\geq 65 \times 10^3/\mu\text{L}$ | <ul style="list-style-type: none"> <li>Release in LMS, it will be reported as <b>MATURE</b>.</li> </ul>   |       |         |  |   |   |   |
| PLT count is $< 65 \times 10^3/\mu\text{L}$    | <ul style="list-style-type: none"> <li>Release in LMS, it will <u>reflex</u> to <b>L/S &amp; PG</b> confirmation by TLC.</li> </ul>   |       |         |  |   |   |   |

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

### How to Calibrate

| Step | Action   |
|------|--|
| 1    | <ul style="list-style-type: none"> <li>• Calibration interval on <i>poch-100i</i> is every 6 months.</li> </ul>  |
| 2    | <ul style="list-style-type: none"> <li>• The calibration is always performed in the “<b>WB</b>” mode.</li> <li>• The type of calibration performed is “<b>Calibrator calibration for whole blood (WB) mode</b>” <i>page 65, instructions manual</i>.</li> </ul>  |
| 3    | <ul style="list-style-type: none"> <li>• A precision check is performed prior to calibration.</li> <li>• When performing this calibration, the first analysis data is not included in the calculation.</li> <li>• It is overwritten by the second analysis data.</li> </ul>  |
| 4    | <ul style="list-style-type: none"> <li>• If an error occurs during precision check analysis or calibrator analysis, an alarm sounds and an error dialog appears</li> <li>• The results of the analysis where the error occurred are displayed in reverse video, as “---.-“.</li> <li>• Press “<b>OK</b>” to close the error dialog, then press “<b>Run</b>” again.</li> </ul>  |
| 5    | <ul style="list-style-type: none"> <li>• Take out the calibrator from refrigerator at least 30 minutes before use to warm the vial to room temperature.</li> <li>• Mix each vial by gentle end-to-end inversion until the cell button in the bottom of the vial is completely suspended.</li> <li>• Allow the vial to rest on flat surface 15 seconds prior to analysis to allow for the dispersion of micro-bubbles.</li> </ul> |
| 6    | <ul style="list-style-type: none"> <li>• From Main screen,           <ul style="list-style-type: none"> <li>• press “<b>Menu</b>”</li> <li>• press “<b>Calib</b>”</li> <li>• select “<b>Calibrator (WB)</b>”</li> </ul> </li> </ul>  |
| 7    | <ul style="list-style-type: none"> <li>• Insert the <b>green</b> adapter into the sample position then load the calibrator vial.</li> </ul>  |
| 8    | <ul style="list-style-type: none"> <li>• Press “<b>Run</b>”, let the analysis finish; then repeat this step <b>10 more times</b>.</li> <li>• This step should be performed a total of 11 times for precision check.</li> </ul>   |
| 9    | <ul style="list-style-type: none"> <li>• After the completion of precision check,           <ul style="list-style-type: none"> <li>• press “<b>Next</b>”</li> <li>• press “<b>Quit</b>”</li> </ul> </li> </ul>   |

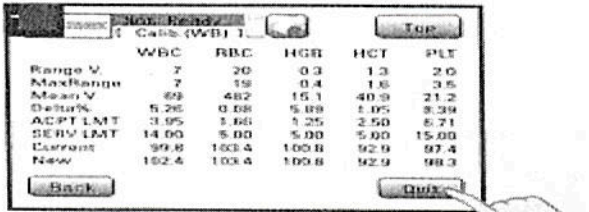


## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

### How to Calibrate, *continued*

| Step | Action   |
|------|--|
| 10   | <ul style="list-style-type: none"> <li>The calibration screen opens up.</li> <li>Manually enter the target values listed on calibrator insert and verify that they are correct               <ul style="list-style-type: none"> <li>press “Enter”</li> <li>press “Next”</li> <li>press “OK”</li> </ul> </li> </ul> |
| 11   | <ul style="list-style-type: none"> <li>Press “Run”, let the analysis finish; then repeat this step <b>5 more times</b>.</li> <li>This step should be performed a total of <b>6 times</b> to obtain required calibration data.</li> </ul>   |
| 12   | <ul style="list-style-type: none"> <li>After analysis, press “Next”.</li> <li>The calibration results show on screen.</li> </ul>   |
| 13   | <ul style="list-style-type: none"> <li>Press “Quit” to update calibration value and calibration history.</li> </ul>  |
| 14   | <ul style="list-style-type: none"> <li>Document calibration on calibration log, CLS initials &amp; date.</li> </ul>  |

### Reviewing Calibration Results

| Step | Action   |
|------|--|
| 1    | <ul style="list-style-type: none"> <li>Image below shows an example result of calibration run.</li> </ul> <div style="text-align: center;">  <p>Press "Quit" to update calibration value and calibration history.</p> </div> |

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX poch-100i Analyzer, *continued*

**Reviewing  
 Calibration  
 Results,  
*continued***

|          |  |
|----------|--|
| 2        | <ul style="list-style-type: none"> <li>Explanation of displayed items on calibration result screen.</li> </ul>   |
| Range V. | <ul style="list-style-type: none"> <li>The highest value minus the lowest value within five consecutive analysis.</li> <li></li> </ul>   |
| MaxRange | <ul style="list-style-type: none"> <li>The maximum Range Value allowed.</li> </ul>   |
| Mean V.  | <ul style="list-style-type: none"> <li>Mean value of five consecutive analysis results.</li> </ul>   |
| Delta %  | <ul style="list-style-type: none"> <li><math>\frac{\text{Assay Target} - \text{Mean Value}}{\text{Mean Value}} \times 100</math><br/>           (this is automatically calculated and displayed).</li> </ul> |
| ACPT LMT | <ul style="list-style-type: none"> <li>Maximum Upper Limit of Delta Percent (%).</li> </ul>  |
| SERV LMT | <ul style="list-style-type: none"> <li>If the Delta Percent exceeds this limit, technical assistance may be necessary and instrument system needs service.</li> </ul>  |
| Current  | <ul style="list-style-type: none"> <li>Current calibration value which was obtained in the previous calibration procedure.</li> </ul>  |
| New      | <ul style="list-style-type: none"> <li>New calibration value calculated from the calibrator analysis.</li> </ul>   |

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

### Reviewing Calibration Results, *continued*

| Step                       | Action   |       |         |                            |   |                     |  |                     |  |                    |  |
|----------------------------|--|-------|---------|----------------------------|---|---------------------|--|---------------------|--|--------------------|--|
| 3                          | <ul style="list-style-type: none"> <li>Table below shows how the calibration data is used by the system.</li> </ul> <table border="1"> <thead> <tr> <th>If...</th> <th>Then...</th> </tr> </thead> <tbody> <tr> <td>Delta % is within ACPT LMT</td> <td> <ul style="list-style-type: none"> <li>Calibration factor will not be changed, i.e. instrument will continue using the “<b>Current</b>” calibration value.</li> </ul> </td> </tr> <tr> <td>Delta % &lt;= ACPT LMT</td> <td> <ul style="list-style-type: none"> <li>The “<b>New</b>” calibration value will become the “<b>Current</b>” calibration value.</li> </ul> </td> </tr> <tr> <td>Range V. &gt; MaxRange</td> <td> <ul style="list-style-type: none"> <li>The “<b>New</b>” calibration value will become the “<b>Current</b>” calibration value.</li> </ul> </td> </tr> <tr> <td>Delta % &gt; SERV LMT</td> <td> <ul style="list-style-type: none"> <li>Calibration will not be allowed.</li> <li>Instrument needs service.</li> <li>Call 1(866)-8SYSMEX for technical assistance.</li> </ul> </td> </tr> </tbody> </table> | If... | Then... | Delta % is within ACPT LMT | <ul style="list-style-type: none"> <li>Calibration factor will not be changed, i.e. instrument will continue using the “<b>Current</b>” calibration value.</li> </ul> | Delta % <= ACPT LMT | <ul style="list-style-type: none"> <li>The “<b>New</b>” calibration value will become the “<b>Current</b>” calibration value.</li> </ul> | Range V. > MaxRange | <ul style="list-style-type: none"> <li>The “<b>New</b>” calibration value will become the “<b>Current</b>” calibration value.</li> </ul> | Delta % > SERV LMT | <ul style="list-style-type: none"> <li>Calibration will not be allowed.</li> <li>Instrument needs service.</li> <li>Call 1(866)-8SYSMEX for technical assistance.</li> </ul> |
| If...                      | Then...  |       |         |                            |   |                     |  |                     |  |                    |  |
| Delta % is within ACPT LMT | <ul style="list-style-type: none"> <li>Calibration factor will not be changed, i.e. instrument will continue using the “<b>Current</b>” calibration value.</li> </ul>  |       |         |                            |   |                     |  |                     |  |                    |  |
| Delta % <= ACPT LMT        | <ul style="list-style-type: none"> <li>The “<b>New</b>” calibration value will become the “<b>Current</b>” calibration value.</li> </ul>   |       |         |                            |   |                     |  |                     |  |                    |  |
| Range V. > MaxRange        | <ul style="list-style-type: none"> <li>The “<b>New</b>” calibration value will become the “<b>Current</b>” calibration value.</li> </ul>   |       |         |                            |   |                     |  |                     |  |                    |  |
| Delta % > SERV LMT         | <ul style="list-style-type: none"> <li>Calibration will not be allowed.</li> <li>Instrument needs service.</li> <li>Call 1(866)-8SYSMEX for technical assistance.</li> </ul>   |       |         |                            |   |                     |  |                     |  |                    |  |
| 4                          | <ul style="list-style-type: none"> <li>“<b>NEW</b>” calibration value = (Target/Mean V.) x Current (automatically calculated &amp; stored by instrument)</li> </ul>  |       |         |                            |   |                     |  |                     |  |                    |  |

### How to Setup QC File


| Step | Action   |
|------|--|
| 1    | <ul style="list-style-type: none"> <li>To setup QC file, from Main screen,                             <ul style="list-style-type: none"> <li>press “<b>Menu</b>”.</li> <li>press “<b>Chg. Reag</b>”</li> <li>press “<b>Setup</b>”</li> </ul> </li> </ul> <div style="text-align: center;"> <p>Press "Menu".      Press "QC".      Press "Setup".</p> </div> |
| 2    | <ul style="list-style-type: none"> <li>Scan the barcode label for the Lot #. (the first set of barcodes on top of the QC package insert-refer to step 3).</li> <li><b>Expiration date has to be manually entered.</b></li> </ul>   |

# Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

How to Setup  
 QC File,  
*continued*

3

- QC package insert for use in defining QC File.



**EIGHTCHECK-3WP X-TRA.**  
 HEMATOLOGY CONTROL

poch-100i

|                  | Low Abnormal | Normal     | High Abnormal |
|------------------|--------------|------------|---------------|
| Data Due Date #1 | 27 Jul 09    | 17 Aug 09  | 15 Sep 09     |
| Expiration Date  | 2009-06-06   | 2008-06-06 | 2008-09-09    |
| Lot Number       | 81120712     | 81120711   | 81120712      |

| Parameter                        | Unit | Low   | High | Low   | High | Low   | High |
|----------------------------------|------|-------|------|-------|------|-------|------|
| WBC x10 <sup>9</sup> /L          |      | 3.1   | 9.2  | 7.1   | 8.1  | 18.7  | 9.4  |
| RBC x10 <sup>6</sup> /L          |      | 1.00  | 0.21 | 4.00  | 3.00 | 4.10  | 0.20 |
| HGB g/L                          |      | 6.4   | 0.0  | 12.0  | 9.4  | 18.2  | 0.0  |
| HCT %                            |      | 18.0  | 0.0  | 36.0  | 2.4  | 48.6  | 0.0  |
| MCV fL                           |      | 57.1  | 12.0 | 50.0  | 30.4 | 50.0  | 0.0  |
| MCH pg                           |      | 31.5  | 0.0  | 31.0  | 3.1  | 31.0  | 0.0  |
| MCHC g/L                         |      | 55.0  | 0.0  | 34.7  | 5.0  | 31.4  | 0.0  |
| PLT x10 <sup>9</sup> /L          |      | 50    | 11   | 61    | 30   | 40    | 0.0  |
| PLaT (WBC) %                     |      | 24.0  | 2.7  | 19.2  | 2.0  | 24.3  | 1.4  |
| Mean (PLaT) %                    |      | 11.0  | 5.0  | 11.4  | 0.0  | 11.0  | 2.7  |
| Band (PLaT) %                    |      | 0.0   | 2.7  | 0.0   | 0.0  | 0.0   | 4.0  |
| Lymph (PLaT) x10 <sup>9</sup> /L |      | 0.0   | 0.0  | 0.1   | 0.5  | 0.0   | 0.0  |
| Monoc (PLaT) x10 <sup>9</sup> /L |      | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| Neut (PLaT) x10 <sup>9</sup> /L  |      | 1.0   | 0.0  | 0.2   | 0.0  | 0.0   | 0.0  |
| PLaT fL                          |      | 67.1  | 16.0 | 64.0  | 16.7 | 60.0  | 12.2 |
| PLaT fL                          |      | 104.0 | 20.0 | 104.0 | 20.5 | 104.0 | 20.0 |
| PLaT fL                          |      | 41.0  | 2.0  | 41.0  | 0.0  | 44.0  | 0.0  |
| PLaT fL                          |      | 14.0  | 0.0  | 12.0  | 0.0  | 14.0  | 0.0  |
| PLaT fL                          |      | 14.0  | 0.0  | 14.0  | 0.0  | 14.0  | 0.0  |

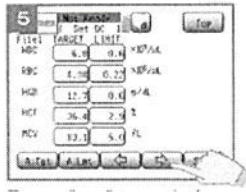
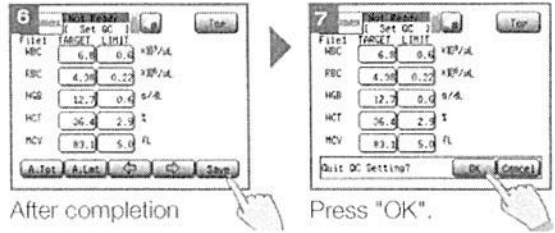
Refer to package insert for System requirements on adding QC targets to files.  
 Modified by: [illegible]  
 System Version: 1.0

Barcodes  
 for Lot #s

Barcodes  
 for the  
 target  
 values

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *poch-100i* Analyzer, *continued*

### How to Setup QC File, *continued*

| Step | Action  |
|------|---|
| 4    | <ul style="list-style-type: none"> <li>Press → to go to the next 5 QC file setting screens.</li> <li>Scan <b>all 19 barcode labels</b> for each level (Low, Normal, and High).</li> </ul>   |
| 5    | <ul style="list-style-type: none"> <li>Once all the parameter have been entered/ scanned,                             <ul style="list-style-type: none"> <li>press “Save</li> <li>press “Ok</li> </ul> </li> </ul>  <p>After completion      Press "OK".</p> |

### Quality Control Evaluation

| Step | Action  |
|------|---|
| 1    | <ul style="list-style-type: none"> <li>When calculating ranges for new lot of whole blood controls or new batch of amniotic pool positive control, use the same historical SD &amp; CV as the Regional Reference Laboratory.</li> </ul> |

### Notes and Limitations

| Step | Action   |
|------|--|
| 1    | <ul style="list-style-type: none"> <li>For sub-optimal samples that are unacceptable for Lamellar Body Count obtain L/S&amp; PG order and send specimen to the Regional reference laboratory for L/S &amp; PG detection by TLC.</li> </ul> |
| 2    | <ul style="list-style-type: none"> <li>If the AF hematocrit (HCT) exceeds 1%, reflex the specimen for L/S &amp; PG detection by TLC.</li> </ul>  |

## Procedure for Lamellar Body Counts in Amniotic Fluid On SYSMEX *pocH-100i* Analyzer, *continued*

**Alternate Method**

| Step | Action  |
|------|---|
| 1    | <ul style="list-style-type: none"> <li>In the event of instrument malfunction and the problem could not be resolved, <i>samples should be sent straight for L/S &amp; PG Detection by TLC.</i></li> </ul> |

**Non-Controlled Documents**

The following non-controlled documents support this procedure.

| Reference  |                |
|--|----------------|
| SYSMEX <i>pocH-100i</i> Analyzer, Instructions 2005-2006 | Non-controlled |
| SYSMEX package inserts (reagents, calibrators, controls) | Non-controlled |
| Preventive Maintenance for <i>pocH-100i</i> Analyzer     | Non-controlled |
| Lamellar Body Count Inventory                            | Non-controlled |
| Calibration Log  | Non-controlled |
| Operator Training Checklist                              | Non-controlled |

**Controlled documents**




|         | Title   |
|---------|---|
| LGM8000 | Standard precautions and safety practices in the laboratory |
| LGM8005 | Universal Body Substance precautions                        |
| LGM8010 | Proper hand-washing   |
| LGM8006 | Infection Control   |
| LGM8007 | Cleaning Work Areas   |
| LGM8012 | Proper storage and disposal of chemical hazardous waste     |

**Author**

**M Toprakci**

## Procedure for Lamellar cody Counts in Amniotic Fluid on SYSMEX poch-100i Analyzer

Reviewed and approved by:

| SIGNATURE  | DATE       |
|--|------------|
| <b>Maaret Toprakci, CLS, MS</b><br>Supervisor<br>Los Angeles Medical Center                  | 10/29/12   |
|             |            |
| <b>Julie Toti, CLS, MS</b><br>Manager, Clinical Laboratory<br>Los Angeles Medical Center     |            |
|            | 12/10/2012 |
| <b>Joseph Thompson, M.D.</b><br>Director, Clinical Laboratory<br>Los Angeles Medical Center  |            |
|  12/11/12 |            |

*Continued on next page*

## Procedure for Lamellar cody Counts in Amniotic Fluid on SYSMEX poch-100i Analyzer, Continued

### Document History Page

Effective Date:

| Change type: New, Major, Minor etc. | Changes Made to SOP – describe | Signature responsible person/date | Med. Dir. Reviewed/ Date    | Lab Manager reviewed/ date  | Date change implemented |
|-------------------------------------|--------------------------------|-----------------------------------|-----------------------------|-----------------------------|-------------------------|
| New                                 |                                | 10/29/12<br><i>(Signature)</i>    | <i>(Signature)</i> 12/16/12 | <i>(Signature)</i> 12/10/12 |                         |
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