

COULTER® EPICS® XL™ Flow Cytometer COULTER® EPICS® XL- MCL™ Flow Cytometer

reticONE™ SYSTEM Quick Reference Card

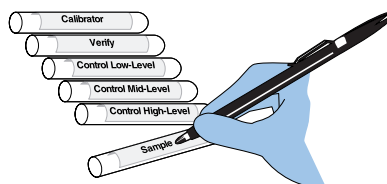
For In Vitro Diagnostic Use

Note: This card abbreviates the reticulocyte analysis procedure. For additional information, such as software installation, instrument setup, storage conditions and stability, and cleaning procedures, refer to the reticONE SYSTEM Guide, PN 4237292. For a three-fluorescence sensor instrument, use a 675-BP filter for reticulocyte analysis. When analysis is complete, replace the 675-BP filter with a 620-BP filter.

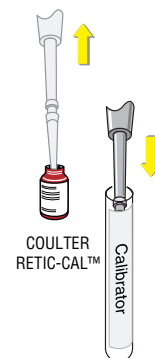
- 1** Each test requires 2 μ L of a venous, whole-blood specimen. Perform a red blood cell count on the specimen.



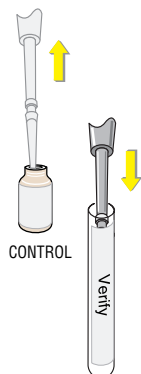
- 2** For each batch of specimens, label 12x75 mm test tubes.



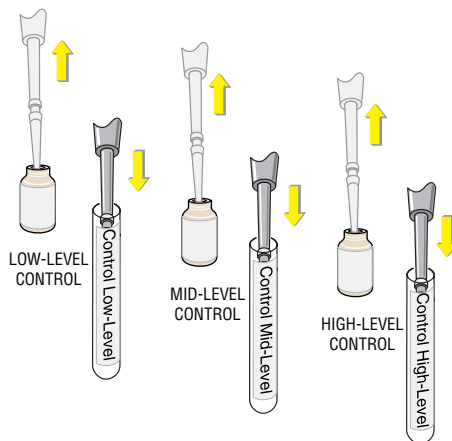
- 3** Add 2 μ L of Retic-CAL™ Biological Calibrator to the calibrator test tube.



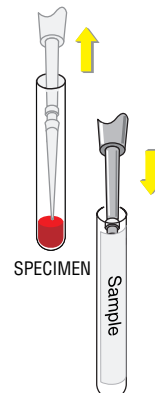
- 4** Add 2 μ L of control to the Verify test tube.



- 5** Add 2 μ L of the Low-, Mid-, and High-level control to the appropriate test tubes.



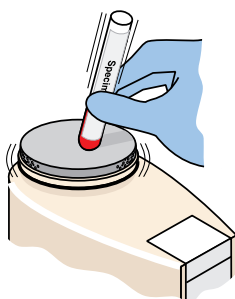
- 6** Add 2 μ L of specimen to the Sample test tube.



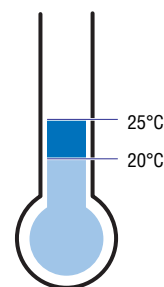
- 7** Add 1 mL of Retic-STAT™ reagent to each test tube.



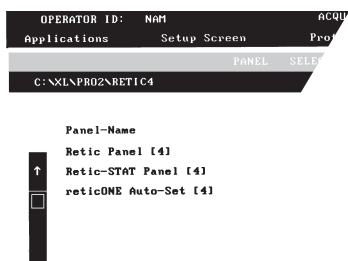
- 8** Gently vortex each tube for about five seconds.



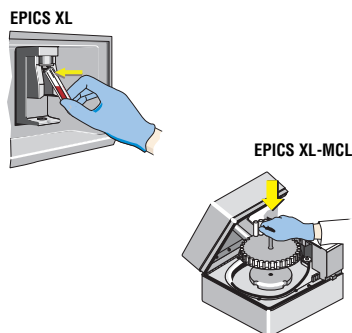
- 9** Incubate samples for at least 20 minutes at 20-25°C, protected from light. Analyze samples within 6 hours.



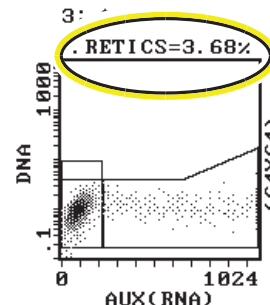
- 10 At the instrument, select **Applications >> Acquisition >> Panel >> reticONE Auto-Set**.



- 11 Load the Calibrator and Verify test tubes. If using the XL-MCL flow cytometer, press **AUTO** to perform reticulocyte analysis automatically.

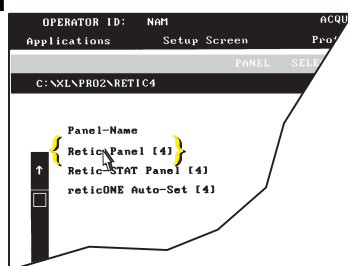


- 12 Confirm recovery of the assayed reticulocyte value for the Verify test tube.

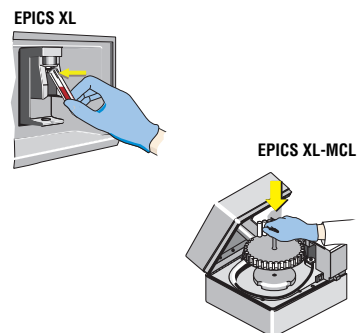


- 13 If the reticONE Auto-Set protocol (Autostandardization) fails, do not analyze the samples. Rerun the Autostandardization panel (step 10) or repeat analysis starting with step 3.

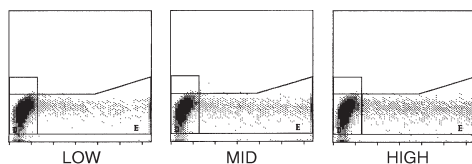
- 14 Select **Retic-STAT** or **Retic Panel**.



- 15 Load the Control and Sample test tubes. If using the XL-MCL flow cytometer, press **AUTO** to perform reticulocyte analysis automatically.



- 16 Confirm recovery of the assayed values for all control tubes. The following are typical Reticulocyte control histograms.



- 17 A Sample Report can be generated using the Report function of the SYSTEM II™ Software. The Reticulocyte percentage and absolute count (requires entry of RBC value) will automatically print on the Sample Report.

| MIAMI REGIONAL MEDICAL CENTER | | | | | |
|--|--------------|------------------|------------------|----------------------|----------------|
| Coulter T8000 FACS (R) Acquisition: Retic Panel Report | | | | | |
| OPID: 00000 | | | | | |
| MIAMI REGIONAL MEDICAL CENTER | | | | | |
| Patien Name | Brown, Janet | Specimen ID | Brown, Janet | | |
| Patien ID | 123456 | Collect Date | 25Jun98 | | |
| Site | IP | Collect Time | 11:22:39 | | |
| DOB | | Specimen | Physician/Clinic | | |
| Ti | | Physician/Clinic | | | |
| Analysis | 1/10 | % | CELS-5/ul | | |
| WBC | | | | Yes | Normal |
| Lymphocytes | | | | Ratio-STAT Panel (L) | Panel Name |
| Neutrophils | | | | 20006433 - 20006435 | Panel Run # |
| Monocytes | | | | 25Jun98 | Sample Date |
| Basophils | | | | 11:22:39 | Sample Time |
| Retic-ONE | | | | Yes | Panel Complete |
| RBC (millions) | 4.0 | | | Yes | Panel Match |
| DESCRIPTION | ID | GATE | % POS | CELL #/ul | EXPECTED RANGE |
| Retic-ONE Whole Blood | WQ | R2 | 5.0 | 212500 | % POS CELLS/ul |
| Percent Reticulocytes | WQ | | | | |

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