### MDS FISH Panel

- **Cells Counted**: Comment: 
- **Cells Analyzed**: Comment: 
- **FISH Result**: Comment:  
- **Interpretation**: Comment: 

The fluorescence in situ hybridization (FISH) analysis of MDS specific chromosome changes was normal. DNA probes specific for chromosome regions 5q33, 7q31, 8q24, and 20q12 showed normal hybridization signals in all interphase cells examined.

**SPECIFIC PROBE RESULTS**:.

- **5q**: NORMAL
  - 'nuc ish 5q33(CSF1R,RPS14)x2[200]

- **7q**: NORMAL
  - 'nuc ish 7q31(MDFICx2)[200]

- **8q**: NORMAL
  - 'nuc ish 8q24(MYCx2)[200]

- **20q**: NORMAL
  - 'nuc ish 20q12(PTPRTx2)[200]

This analysis is limited to abnormalities detectable by the specific probes included in the study. FISH results should be interpreted within the context of a full cytogenetic analysis and hematologic evaluation.
<table>
<thead>
<tr>
<th>TESTS</th>
<th>RESULT</th>
<th>FLAG</th>
<th>UNITS</th>
<th>REFERENCE INTERVAL</th>
<th>LAB</th>
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</table>

References:

This test was developed and its performance characteristics determined by Laboratory Corporation of America Holdings (LabCorp). It has not been cleared or approved by the U.S. Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary.

Specimen Type: BONE MARROW
Director Review: SYSTEM

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DOC1 Ver: 1.49
LCLS Specimen Number: 250-225-9013-0
Patient Name: SAMPLE REPORT, 511060
Date of Birth: 06/12/1985
Gender: F
Patient ID:
Lab Number: YU16-70520 F
Indications:

Test: MDS FISH Panel

Cells Counted: 200/PROBE

FISH RESULT: NORMAL MDS PANEL

INTERPRETATION:

The fluorescence in situ hybridization (FISH) analysis of MDS specific chromosome changes was normal. DNA probes specific for chromosome regions 5q33, 7q31, 8q24, and 20q12 showed normal hybridization signals in all interphase cells examined.

SPECIFIC PROBE RESULTS:

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LCLS Specimen Number: 250-225-9013-0
Patient Name: SAMPLE REPORT, 511060
Date of Birth: 06/12/1985
Gender: F
Patient ID: 
Lab Number: YU16-70520  F

Account Number: 90000999
Ordering Physician: 
Specimen Type: BONE MARROW
Client Reference: 
Date Collected: 09/06/2016
Date Received: 09/06/2016

M. Katharine Rudd, PhD, FACMG
Board Certified Cytogeneticist

Arundhati Chatterjee, MD
Medical Director
Peter Papenhausen, PhD
National Director of Cytogenetics

Technical component performed by Laboratory Corporation of America Holdings, 1904 TW Alexander Drive, RTP, NC, 27709-0153 (800) 345-4363
Professional Component performed by LabCorp CLIA 34D1008914, 1904 TW Alexander Dr, Research Triangle Park, NC 27709. Medical Director, Arundhati Chatterjee, MD.
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This document contains private and confidential health information protected by state and federal law.
### MDS FISH Panel

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<td>Cells Analyzed</td>
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<td>FISH Result Comment:</td>
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<tr>
<td>50% OF CELLS POSITIVE FOR TRISOMY 5 AND TRISOMY 7</td>
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<td></td>
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<tr>
<td>Interpretation Comment:</td>
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</tbody>
</table>

**Comment:** ABNORMAL CLONE DETECTED

The fluorescence in situ hybridization (FISH) study of the most common MDS related chromosomal changes was positive for extra signals targeting chromosomes 5 and 7. Results for 8q24 and 20q12 were normal. Trisomy for chromosomes 5 and 7 is more consistent with lymphoid clonal evolution than MDS.

**Specific Probe Results:**

- **5q:** ABNORMAL
  - nuc ish 5p12(FGF10x3),5q33(CSFIR,RPS14x3)[100/200]

- **7q:** ABNORMAL
  - nuc ish 7cen(D7Z1x3),7q31(MDFICx3)[100/200]

- **8q:** NORMAL
  - nuc ish 8q24(MYCx2)[200]

- **20q:** NORMAL
  - nuc ish 20q12(PTPRTx2)[200]

**This analysis is limited to abnormalities detectable by the specific probes included in the study. FISH results should be interpreted within the context of a full cytogenetic analysis and hematologic evaluation.**

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Specimen Type: BONE MARROW

Director Review: Inder K. Gadi, PhD, FACMG

01 YU LabCorp RTP Dir: Arundhati Chatterjee, MD
1904 TW Alexander Drive Suite C, RTP, NC 27709-0153
For inquiries, the physician may contact Branch: 800-222-7566 Lab: 800-735-4087
LCLS Specimen Number: 250-225-9014-0  
Account Number: 90000999

Patient Name: SAMPLE REPORT, 511060  
Ordering Physician: 

Date of Birth: 06/12/1985  
Specimen Type: BONE MARROW

Gender: F  
Client Reference: 

Patient ID:  
Date Collected: 09/06/2016

Lab Number: YU16-70530  
Date Received: 09/06/2016

Indications:  
Date Reported: 09/06/2016

Test: MDS FISH Panel

Cells Counted: 200  
Cells Analyzed: 200

FISH RESULT: 50% OF CELLS POSITIVE FOR TRISOMY 5 AND TRISOMY 7

INTERPRETATION: ABNORMAL CLONE DETECTED

The fluorescence in situ hybridization (FISH) study of the most common MDS related chromosomal changes was positive for extra signals targeting chromosomes 5 and 7. Results for 8q24 and 20q12 were normal.

Trisomy for chromosomes 5 and 7 is more consistent with lymphoid clonal evolution than MDS.

SPECIFIC PROBE RESULTS:

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Client/Sending Facility:
LabCorp Test Master
Test Account
3060 South Church Street
Burlington, NC 27215
Ph: (336)436-8645
POE-00

LCLS Specimen Number: 250-225-9014-0
Patient Name: SAMPLE REPORT, 511060
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