* Beta Thal Short 72000-A *

** TECH ID# ** 0  
** VIAL# ** 8  
** SAMPLE ID# ** 0000000000000000000000

<table>
<thead>
<tr>
<th>ANALYTE ID</th>
<th>%</th>
<th>TIME</th>
<th>AREA</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>2.2</td>
<td>1.01</td>
<td>29015</td>
</tr>
<tr>
<td>P2</td>
<td>5.8</td>
<td>1.25</td>
<td>72858</td>
</tr>
<tr>
<td>P3</td>
<td>46.7</td>
<td>1.65</td>
<td>588612</td>
</tr>
<tr>
<td>Ao</td>
<td>42.2</td>
<td>2.40</td>
<td>531204</td>
</tr>
<tr>
<td>A2</td>
<td>2.1</td>
<td>3.57</td>
<td>27231</td>
</tr>
<tr>
<td>C-WINDOW</td>
<td>1.2</td>
<td>4.98</td>
<td>14519</td>
</tr>
</tbody>
</table>

** TOTAL AREA ** 1263439

| F | 2.2% | A2 | 2.1% |

** Graph **
The chromatogram and data in this case report are actual laboratory findings. Bio-Rad Laboratories, Inc. does not validate or confirm the sample data included in this database. All information contained herein is for informational use only and is not meant as a definitive identification of hemoglobin genotype.

Hb Name: Santa Clara
Genotype: Beta 97(F 99) His-->Asn

Hematology:
Hb (g/dL): 16.1
RBC (M/ml): 5.44
MCV (fL): 84
MCH (pg): 29.6
Morphology: anisocytosis, microcytosis

Iron Status:
Ferritin: 20
Transferrin saturation: 244
Clinical Findings: polycythemia
Electrophoresis: does not separate

Patient Data
Ethnicity: Central Italy
Gender: Female
Age of patient: 43
Transfused patient: NO

References: Bioquimica et Biophysica (2007)
Dr Antonio Amato
Associazione Nazionale per la Lotta contro le Microcitemie in Italia (ANMI-Onlus)
Centro Studi Microcitemie di Roma
Rome, Italy

Bio-rad Comments:
Hb Santa Clara beta 97(FG4) His>Asn is an increased oxygen affinity variant. It has been described once in a Mexican child presenting with a moderate erythrocytosis.