## Beta Thal Short 72800-A

**DATE:** 07/15/08  **TIME:** 20:50:28

**TECH ID:** 0  **VIAL:** 41  **SAMPLE ID:** 00000000000000000000

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<th>AREA</th>
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<tbody>
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</table>

**TOTAL AREA:** 1697344

**F:** 7.9%  **A2:** 1.7%
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: SD-Punjab
Hb class: beta

Hematology
Hb (g/dL): 11.7
RBC (M/mL): 3.7
MCV (fL): 96.6
MCH (pg): 31.8

Major abnormal property: sickling
Clinical findings: compound heterozygote
Laboratory findings: A2 2.7%, F 8.5%, S 49.3%, D 39.5%
Characterization: HPLC, acid and alkaline electrophoresis, IEF and mass spectrometry

Ethnicity: AC
Gender: M
Age: 32

Reference Laboratory:
Joan Henthorn
Haemoglobinopathy Laboratory
Central Middlesex Hospital
Greater London, United Kingdom

Bio-Rad Comments:
Compound heterozygosity for HbS and HbD-Punjab leads to a severe sickle cell anemia because the mutated residue of HbD-Punjab enhances HbS polymerization by forming an additional contact stabilizing the HbS polymer.