Patient Data

Sample ID: Unknown-2-163
Patient ID: 163
Name: Injection Number: 163
Physician: Run Number: 4
Sex: Tube Number: 7
Comments: Operator ID: JE

Analysis Data

Analysis Performed: 07/30/2008 16:37:49

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</table>

Total Area: 2,877,698

F Concentration = 0.7 %
A1c Concentration = 5.0 %
A2 Concentration = 2.5 %

Analysis comments:
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: Valletta
Genotype: ACA-->CCA
Hb Class: Beta Variant

Sample Hematology Data
Hb (g/dL): 14.7
RBC (M/mL): 5.2 x 10^12
MCV (fL): 77.6
MCH (pg): 28.4

Iron Status
Ferritin: 198

Major abnormal property: Stability Normal
Laboratory Findings: 21.171% Beta Valletta Globin chain

Electrophoresis: CHROMATOGRAPHY The betaX chain elutes ahead of betaA in reversed phase HPLC

Characterization: STRUCTURE STUDIES Tryptic digestion; separation of peptides by reversed phase HPLC; amino acid analysis DNA ANALYSES An ACA->CCA mutation at codon 87

OCCURRENCE: Found in many Maltese newborn babies and their parents, and also in some Italian newborn babies
OTHER INFORMATION: Ratio of Hb Valletta to Hb A in the newborn is 50:50; the Hb Valletta mutation occurs linked to the Hb F-Malta-I mutation (i.e. CAT->CGT) at codon 117 of the Ggamma gene (the two mutations are 27-28 kb apart)

Patient general data
Ethnicity: Maltese
Gender: Male
Age: 35
Transfused patient: No


Ref Lab: Director: Professor Alex. E. Felice. Thalassaemia Clinic and Laboratory of Molecular Genetics Department of Physiology & Biochemistry, Biomedical Sciences Building, University of Malta, Msida; And, Section of Molecular Genetics, Division of Pathology, Mater Dei Hospital, MALTA, MSD2080; tel: 356 2340 2774, Fax: 356 2134 3535

Reference Laboratory:
Professor Alex E. Felice M.D., Ph.D.
Thalassaemia Clinic and Laboratory of Molecular Genetics Department of Physiology & Biochemistry
University of Malta and Section of Molecular Genetics Division of Pathology
Mater Dei Hospital, Malta

Bio-rad Comments:
Hb Valletta beta 87(F3) Thr>Pro. Elutes as Hb A°. Clinically normal. Abnormal chain could be observed by RP HPLC. This mutation is usually linked in cis to Hb F Malta.