

(A Unit of M.M. Diagnostics Pvt. Ltd.)

69, Hargovind Enclave, Opp. Railway Reservation Centre, Karkardooma, Delhi - 110092
 Tel. : 011 43076300, 011 43062301 Mob. : 9599193988, 7827574956, 8090100434
 E-mail : clinicaldiagnosticcentre@gmail.com Website : www.clinicdiagnosticcentre.com

BETA-THALASSEMIA MUTATION ANALYSIS REPORT

Specimen Description: Sample quality is optimum for the test. DNA conc.: 35.6ng/μl

Methodology: Allele Specific Polymerase Chain Reaction

PATIENT'S NAME	MUTATION IDENTIFIED	DIAGNOSIS	INTERPRETATION
MASTER KARTIK	IVS 1-5 (G-C) Mutant allele	Detected	Beta Thalassemia major
	CD 15 (G>A) Mutant allele	Detected	

	Lane no.		
	1	100bp Molecular Weight Marker	
	2	PATIENT	IVS 1-1(G-T)
	3	PATIENT	IVS 1-5 (G-C)
	4	PATIENT	FS 8-9 (+G)
	5	PATIENT	FS 41-42 (-CTTT)

	Lane no.		
	1	100bp Molecular Weight Marker	
	2	PATIENT	CD 5(-CT)
	3	PATIENT	CD 15 (G>A)
	4	PATIENT	CD 16 (-C)
	5	PATIENT	CD 30 (G>C)

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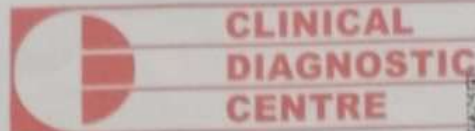
LAB, CT SCAN, Digital X Ray, Portable X Ray, Dental OPG, Mammography, Ultrasound, Liver Elastography, Color Doppler, ECHO, ECG, EEG, NCV, EMG, PFT, PSG, Radiological Interventions (CT/USG Guided FNAC & Biopsy)

MRI

FIBROSCAN

On Panel CGHS, DGEHS, DJB, ESI, MCD, BSES, DVB, DDA, DAK, NORTHERN RAILWAY

• Timing: Daily : 07.00 am - 10.00 pm • Sunday : 08.00 am - 06.00 pm • Report Collection Time : 07.00 pm - 09.30 pm Except Sunday



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Name	: MasterKARTIK	Centre Details	: CLINICAL DIAGNOSTICS CENTRE(UNIT)
Age	: 6 Yrs Sex: Male	Accession ID	: KAR2410170173
Collection Date	: 17/Oct/2024 06:54PM	Referred By	: SELF
Received Date	: 18/Oct/2024 08:09AM	Report Date	: 30/Oct/2024 04:28PM
Registration Date	: 17/Oct/2024	Ref.No/TRF.No	: /

DEPARTMENT OF MOLECULAR DIAGNOSTICS-III

#Beta Thalassemia - 9 Common Mutations Screening (Single)

Report Attached

*** End Of Report ***

- Disclaimer: All Results released pertain to the specimen submitted to the lab
1. Test results are dependent on the quality of the sample received by the lab
 2. Tests are performed as per schedule given in the test listing and in any unforeseen circumstances, report delivery may be delayed
 3. Test results may show interlaboratory variations
 4. All dispute and claims are subjected to local jurisdiction only. Clinical correlation advised.
 5. Test results are not valid for medico legal purposes
 6. For all queries, feedbacks, suggestions, and complaints, please contact customer care support +0124 665 0000



Vinay Bhatia
Dr. Vinay Bhatia
Ph.D.
Head, Molecular Diagnostics

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Shivani Ahlawat
Dr. Shivani Ahlawat
MD, D.N.B (Path)
Head, National Reference Lab
NABL No. 17038

MRI LAB, CT SCAN, Digital X Ray, Portable X Ray, Dental OPG, Mammography, Ultrasound, Liver Elastography, Color Doppler, EDNO, CGH, EGG, HCG, EITG, FTI, PVR, Radionuclide Bone Scans (CT/USG Guided FNAC & Biopsy) **FIBROSCAN**

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E-mail : clinicdiagnosticcentre@gmail.com Website : www.clinicdiagnosticcentre.com

Name	: MASTER. KARTIK 1320569161	Patient UID.	: P48159856
Visit No.	: CD171024156	Registered on	: 17/10/2024 17:03
Age/Gender	: 6 Y / Male	Collected on	: 17/10/2024 17:21
Referred Client	: ESI FARIDABAD HOSPITAL	Approved on	: 30/10/2024 17:32
Referred by	: N/A	Barcode No	: 171024156
Doctor Name	: N/A		

MOLECULAR DIAGNOSTICS

Test Name	Results	Units	Bio. Ref. Interval
BETA THALASSEMIA MUTATION DETECTION	SEE ATTACHMENT		

Methodology : PCR

Interpretation Notes :

This test detects 5 most common mutations linked to Beta Thalassemia in India & Middle East in the fetus using amniotic fluid or CVS as the sample.

DISCLAIMER : SAMPLE PROCESSED IN REFERRAL LAB

Primary Sample Type : WHOLE BLOOD-EDTA

*** End of Report ***

All tests have technical limitations. Collaborative clinicopathological interpretation is mandatory. Isolated lab investigation may not confirm diagnosis of disease. In case of Unexpected/alarming results, doctor/patient is advised to contact lab immediately for necessary action.

Processed By: RAJ

Verified by : DR. PRAVEEN K. PRABHAKAR



DR. PRAVEEN K. PRABHAKAR
M.B.B.S, M.D
SENIOR MICROBIOLOGIST

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MRI

LAB, CT SCAN, Digital X Ray, Portable X Ray, Dental OPG, Mammography, Ultrasound, Liver Elastography, Color Doppler, ECHO, ECG, EEG, NCV, EMG, PFT, PSG, Radiological Interventions (CT/USG Guided FNAC & Biopsy)

FIBROSCAN

On Panel CGHS, DGEHS, DJB, ESI, MCD, BSES, DVB, DDA, DAK, NORTHERN RAILWAY

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6967 Kartika 4y/f

132056916,

Report	08/30/2022
Date	08/30/2022
Time	11:22 AM
Sample ID	112210
Injection	08/30/2022 04:04 PM
Method	Method: HbA2F
Rack	Rack position

PRINTED IN USA

B Homozygous
Thalassemia

Advice

1. Molecular studies
for B0/B0 or
B0/B+ genotype

2. Family
counselor

BIO-RAD

A. S. More
DR. SHILPI MORE
 MBBS, MD, PGT in Molecular Hematopathology
 Assistant Professor
 Department of Pathology
 Reg. No. OMCR/7045
 ESIC MEDICAL COLLEGE & HOSPITAL
 NH-3, NIT...

9/9/22

Regist. No. 1122409641
 Name Master KARTIK
 Gender / Age Male / 4 Yrs
 Ref. By PEDIATRIC WARD
 IP No. 1320561961
 SPECIMEN EDTA

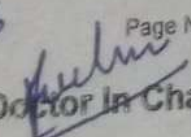
Booking Date 03/09/2022 13:47:02
 Sample Collected On 03/09/2022 13:47:55
 Sample Received On 03/09/2022 13:47:55
 Test Reporting On 03/09/2022 16:46:51
 Test Printed On 03/09/2022 16:48:41

Test Name	Value	Unit	Biological Ref Interval
CBC (Complete Blood Counts)			
Haemoglobin	<u>9.40</u> ^L	g/dl	13.00 - 18.00
Total Leucocyte (WBC) Count	8200.00	/ul	4000.00 - 11000.00
Differential Leucocyte Count			
Neutrophils	46.60	%	40.00 - 80.00
Lymphocytes	43.70	%	20.00 - 50.00
MIX%	<u>9.70</u> ^L	cells/ui	
Absolute Eosinophil Count	<u>0.00</u> ^L	cells/ul	40.00 - 450.00
Platelet Count	<u>1.26</u> ^L	Lacs/mm ³	1.50 - 4.00
RBC Count	<u>3.40</u> ^L	Million/Cumm	4.50 - 5.50
PCV (Hematocrit)	<u>29.80</u> ^L	%	41.00 - 53.00
MCV	87.60	fl	78.00 - 98.00
MCH	<u>27.60</u> ^L	pg	28.00 - 32.00
MCHC	31.50	g/dl	31.00 - 36.00
RDW - CV	<u>18.80</u> ^H	%	11.50 - 15.00

*** End of Report ***

PS
 (- marked anisopoikilocytosis seen with predominantly microcytic hypochromic with a few macrocytes. Numerous tear drop cells and pencil cells are seen. A few cells show basophilic stippling.
 CBC - count as given; DLC - N₄₆ L₄₄ E₄ M₆

Page No: 1 of 1



 Doctor in Charge

Lab Technician Platelets on smear - 1.84 lac/mm³.

Adv: S. Iron Studies.



ESIC MEDICAL COLLEGE & HOSPITAL
NH-3, N.I.T. FARIDABAD, HARYANA

Regist. No.	11265271		Booking Date	16/04/2026 12:21:00
Name	Master KARTIK		Sample Collected On	16/04/2026 12:21:57
Gender / Age	Male / 7 Yrs		Sample Received On	16/04/2026 12:21:58
Ref. By	PAEDIATRIC WARD		Test Reporting On	16/04/2026 15:19:32
IP No	1320569161		Test Printed On	06/05/2026 12:40:47
SPECIMEN	Plain Micro			

Test Name	Value	Unit	Biological Ref Interval
VIRAL MARKER			
HBsAg	Non-Reactive		

***Note :-**

- 1) Immunochromatography test
- 2) Results of this test must be interpreted taking into consideration patients clinical status and history .
- 3) A negative test does not exclude infection. The Concentration of antigen in the serum may be below the analytical sensitivity of the test. This is only a screening test performed using immunochromatography assay.
- 4) It is advisable to confirm positive results with HBV DNA PCR.

Anti HCV Antibody **NON REACTIVE**

****Note :-**

- 1) Methodology: Immunochromatography technique
- 2) Results of this test must be interpreted taking into consideration patients clinical status and history .
- 3) A Non Reactive test does not exclude infection. The Concentration of antibody in the serum may be below the analytical sensitivity of the test. This is only a screening test performed using immunochromatography assay.
- 4) It is advisable to confirm positive results with HCV RNA PCR.

HIV 1 & 2 Antibodies **Non-Reactive**

#Test Description :

- 1) Methodology: Immunochromatography test
- 2) This assay is a screening test for qualitative detection of antibodies to HIV type 1 and/or 2 in human serum or plasma

Test Interpretation:-

* Non Reactive results may not rule-out acute or early HIV infection in the window period. If acute HIV-1 infection is suspected, detection of HIV proviral is recommended.

* Reactive result suggest possibility of preliminary infection with HIV-1 and/or HIV-2. All reactive sample should be verified by submitting a second serum specimen for repeat testing with screening & supplemental or confirmatory HIV tests.

* For the received samples, it is presumed that patient counseling is done at referring center or by referring physician.

*** End of Report ***

Lab Technician

Doctor In Charge

Discharge checklist:

Parameters	Date of measurement	Value
Serum ferritin (3monthly)	16/3/26	1160
Viral markers (3 monthly)	16/4/26	NR
Height (6 monthly)	6/5/26	113 cm
Weight (every visit)	6/5/26	16.75kg

→ 06 Tabs issued
- 54 Tabs Pending

Discharge Advice:

1. Tab Desirox (1/400mg) 1 tab P/O OD (Mon - Thu)
Fri/Sat/Sun = 2 tab OD
 2. T. Folic acid 5mg (1/2 tab P/O) - weekly
 3. Syb Calcium 5ml P/O OD
- Diclofenac gel - LIA

Follow up for next transfusion on 27/6/26 after 3 weeks

Dr Anamika

Dr. Anamika Goldey
Post Graduate Resident
Dept. of Paediatrics
Na. ESIC MCH, Faridabad
Reg. No. DMG 114641

Designation



ई.एस.आई.सी. मेडिकल कॉलेज व अस्पताल
एन.एच. 3, एन.आई.टी, फरीदाबाद

E.S.I.C. MEDICAL COLLEGE & HOSPITAL
NH-3, N.I.T. FARIDABAD (HARYANA)

Department of Paediatrics

DISCHARGE SUMMARY

THALASSEMIA DAY CARE CENTRE

Name: Kaushik Age: 7yr Gender: Male IP/Family
Ward: Paed ward-1 IP NO. 1320569161 MRD No. 13316
Date of admission: 6/5/26 Date of discharge: 6/5/26
Diagnosis: K/C/O B-thal Major.

Chief complaint/Course during hospital stay:

For Routine PRBC transfusion

Transfusion details

Pre-transfusion HB- 10.3

Bag no.- EB 2360

Date of collection: 4/5/26

Volume: 280ml

Any reactions: —

Chelation details:


On Deferasirox/ Deferiprone/ Asunra @ 38 mg/kg/day

Date of last dose modification: April 2025

Other drugs:



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NH-3, N.I.T. FARIDABAD, HARYANA

Regist. No.	112611801		Booking Date	06/05/2026 12:07:30
Name	Master KARTIK		Sample Collected On.	06/05/2026 12:07:48
Gender / Age	Male / 7 Yrs		Sample Recived On.	06/05/2026 12:07:48
Ref. By	PAEDIATRIC WARD		Test Reporting On.	06/05/2026 12:37:39
IP No.	1320569161		Test Printed On.	06/05/2026 12:39:43
SPECIMEN	EDTA			

Test Name	Value	Unit	Biological Ref Interval
CBC (Complete Blood Counts)			
Haemoglobin	<u>10.30</u> ^L	g/dl	13.00 - 18.00
Total Leucocyte (WBC) Count	10370.00	/ul	4000.00 - 11000.00
Differential Leucocyte Count			
Neutrophils	69.10	%	40.00 - 80.00
Lymphocytes	20.70	%	20.00 - 50.00
Eosinophils	2.40	%	0.00 - 6.00
Monocytes	7.80	%	4.00 - 8.00
Basophils	0.00	%	0.00 - 2.00
Immature Granulocytes	0.40	%	0.00 - 2.00
Absolute Eosinophil Count	<u>0.25</u> ^L	cells/ul	40.00 - 450.00
Platelet Count	3.55	Lacs/mm ³	1.50 - 4.00
RBC Count	<u>3.61</u> ^L	Million/Cumm	4.50 - 5.50
PCV (Hematocrit)	<u>31.90</u> ^L	%	41.00 - 53.00
MCV	88.40	fl	78.00 - 98.00
MCH	28.50	pg	28.00 - 32.00
MCHC	32.30	g/dl	31.00 - 36.00
RDW - CV	14.90	%	11.50 - 15.00
PDW (Platelet Distribution Width)	<u>19.40</u> ^H	%	9.00 - 17.00
P-LCR (Platelet - Large Cell Ratio)	<u>48.20</u> ^H	%	13.00 - 43.00

*** End of Report ***

Lab Technician

Doctor In Charge



ESIC MEDICAL COLLEGE & HOSPITAL
NH-3, N.I.T. FARIDABAD, HARYANA

Regist. No.	112611801	Barcode	Booking Date	06/05/2026 12:07:30
Name	Master KARTIK		Sample Collected On.	06/05/2026 12:07:48
Gender / Age	Male / 7 Yrs		Sample Recived On.	06/05/2026 12:07:48
Ref. By	PAEDIATRIC WARD		Test Reporting On.	06/05/2026 12:37:39
IP No.	1320569161		Test Printed On.	06/05/2026 12:39:43
SPECIMEN	EDTA			

Test Name	Value	Unit	Biological Ref Interval
CBC (Complete Blood Counts)			
Haemoglobin	10.30 ^L	g/dl	13.00 - 18.00
Total Leucocyte (WBC) Count	10370.00	/ul	4000.00 - 11000.00
Differential Leucocyte Count			
Neutrophils	69.10	%	40.00 - 80.00
Lymphocytes	20.70	%	20.00 - 50.00
Eosinophils	2.40	%	0.00 - 6.00
Monocytes	7.80	%	4.00 - 8.00
Basophils	0.00	%	0.00 - 2.00
Immature Granulocytes	0.40	%	0.00 - 2.00
Absolute Eosinophil Count	0.25 ^L	cells/ul	40.00 - 450.00
Platelet Count	3.55	Lacs/mm ³	1.50 - 4.00
RBC Count	3.61 ^L	Million/Cumm	4.50 - 5.50
PCV (Hematocrit)	31.90 ^L	%	41.00 - 53.00
MCV	88.40	fl	78.00 - 98.00
MCH	28.50	pg	28.00 - 32.00
MCHC	32.30	g/dl	31.00 - 36.00
RDW - CV	14.90	%	11.50 - 15.00
PDW (Platelet Distribution Width)	19.40 ^H	%	9.00 - 17.00
P-LCR (Platelet - Large Cell Ratio)	48.20 ^H	%	13.00 - 43.00

*** End of Report ***

Lab Technician

Doctor In Charge

Patient Name : Kartik
 Age / Sex : 7 Y / M
 Referred By : SELF
 Centre : FARIDABAD

Lab No : FBD26035295
 Registration On : 24-Mar-26 11:17
 Patient ID : UFBD.0000145316



CBC

EDTA Whole Blood Sample

Accession No: ED01800401 Collected On: 24-Mar-26 11:17 Received On: 24-Mar-26 15:58 Approved On: 24-Mar-26 16:52

Observation	Result	Unit	Biological Ref. Interval	Method
Hemoglobin	8.7	gm/dL	11.5 - 15.5	Colorimetric
Total RBC	3.33	million/ μ L	4.0 - 5.2	Electrical Impedance
Platelet Count	296	$\times 10^3 / \mu$ L	150 - 410 $\times 10^3 / \mu$ L	Impedance
Total Leucocyte Count (WBC)	5.40	$\times 10^3 / \mu$ L	5.0 - 14.0	Flow Cytometry
Differential Leucocyte Count (DLC)				
Neutrophils	73.3	%	32 - 62	Flow Cytometry
Lymphocytes	20.2	%	29 - 48	Flow Cytometry
Monocytes	4.0	%	0 - 4	Flow Cytometry
Eosinophils	2.1	%	0 - 3	Flow Cytometry
Basophils	0.4	%	0 - 1	Flow Cytometry
Absolute Neutrophil Count	3.96	$\times 10^3 / \mu$ L	2.0 - 7.5	Flow Cytometry
Absolute Lymphocyte Count	1.09	$\times 10^3 / \mu$ L	1.0 - 4.0	Flow Cytometry
Absolute Monocyte Count	0.22	$\times 10^3 / \mu$ L	0.2 - 1.0	Flow Cytometry
Absolute Eosinophil Count	0.11	$\times 10^3 / \mu$ L	0.02 - 0.5	Flow Cytometry
Absolute Basophil Count	0.02	$\times 10^3 / \mu$ L	0.00 - 0.30	Flow Cytometry
Indices				
Hematocrit (PCV)	26.5	%	35 - 45	Calculated
Mean Corpuscular Volume (MCV)	79.7	fL	77 - 95	Calculated
Mean Corp. Hemoglobin (MCH)	26.1	pg	25 - 33	Calculated
MCH Concentration (MCHC)	32.8	g/dl	31 - 37	Calculated
Red Cell Dist. Width (RDW-CV)	14.4	%	11.5 - 15.0	Calculated
Red Cell Dist. Width (RDW-SD)	44.7	fL	39 - 46	Calculated
Mean Platelet Volume (MPV)	14.0	fL	7.5 - 12.0	Calculated
Mentzer Index	23.93	Index		Calculated

Remarks: Please correlate with clinical conditions.

Amita Gupta

Dr. Amita Gupta
 Consultant - Pathologist
 M.B.B.S., M.D. (Pathology)
 DMC Reg. No.: 91678

In case of any unexpected or alarming results, please contact us immediately for re-confirmation, clarifications, and rectifications, if needed.

Scan to Validate



सेवा में

अध्यक्ष महोदय जी
नेशनल चाइल्ड रीलिफ सर्विसेस
फरीदाबाद, हरियाणा

विषय: बेटा (कार्तिक) के इलाज हेतु आर्थिक सहायता
के बारे में।

श्रीमान जी

मेरा नाम मितलेश है। मेरा बेटा कार्तिक जिसको
धैलेसीमिया मेजर की बीमारी है। जिसका इलाज E.S.I.C
में चल रहा है। बेटे का नाम कार्तिक है। उसकी
उम्र (7) साल वर्ष है।

मैं एक गरीब मजदूर हूँ। इलाज का खर्च करने
में असमर्थ हूँ।

आपसे मेरा निवेदन है कि कृपया करके
मेरी आर्थिक सहायता करें।

आपकी सहायता का
अभार
मितलेश