



## LABORATORY REPORT



Name : **Master ISHTIK AHMED** Sex/Age : **Male / 6 Years** Case ID : **50700117564**  
Ref. By : **Assoc. Prof. Dr. Bithi Debnath, FCPS** Dis. At : **Dhaka** Pt. ID :  
(Pediatric Neurology)  
Bill. Loc. : **RELIANCE LABS** Pt. Loc. :

Reg Date and Time : 15-Jul-2025 14:01 Sample Type : Serum, CSF Mobile No. : 1742383381  
Sample Date and Time : 17-Jul-2025 15:49 Sample Coll. By : non NSRL Ref Id1 :  
Report Date and Time : 17-Jul-2025 20:19 Acc. Remarks : - Ref Id2 :

TEST	RESULTS	UNIT	BIOLOGICAL REF RANGE	REMARKS
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### CSF Measles IgG Index

Measles Antibody IgG-CSF <i>ELISA</i>	608.0	Units	See Interpretation.
Measles Antibody IgG-Serum <i>ELISA</i>	109888	Units	See Interpretation.
CSF IgG <i>Nephelometry</i>	H <b>4.07</b>	mg/dL	0.63 - 3.35
IgG <i>Nephelometry</i>	H <b>12.80</b>	gm/L	4.53 - 9.16
CSF/Serum IgG Index <i>Calculated</i>	H <b>2.54</b>		Normal : < 1.3 Borderline : 1.3-<=1.5 Positive : >1.5

#### Test Interpretation :

- In order to diagnose this intrathecal immunoglobulin synthesis, clear discrimination between blood derived & brain derived proteins in CSF is required & hence simultaneous estimation of proteins in the paired serum & CSF samples is necessary.
- Measles specific IgG in serum & CSF is tested using Measles specific IgG ELISA kit having higher sensitivity(measuring range 5 to 100 U/ml) for which there are no established reference ranges. The results reported are further to be multiplied by the dilution factor as mentioned above followed by calculation of CSF/Serum Measles specific IgG index (Q IgG Measles specific).
- Total IgG in serum & CSF is tested separately by nephelometry & CSF/Serum IgG quotient (Q IgG) is calculated.
- CSF/Serum Quotient reference (CSFQ ref) is the ratio between CSF/serum Measles specific IgG quotient and CSF/serum Total IgG quotient or CSF/Serum albumin quotient is used for interpretation as mentioned in the reference interval. CSF/Serum antibody index more than 1.5 is considered to be indicative of Measles specific antibody production in CNS.
- Intrathecal immune responses are also noted with subacute(encephalopathy), acute(meningoencephalitis) inflammatory & chronic Autoimmune diseases, hence correlation with CSF cell counts, Clinical & Radiological findings is suggested for specific diagnosis.

----- End Of Report -----

# For test performed on specimens received or collected from non-NSRL locations, it is presumed that the specimen belongs to the patient named or identified as labeled on the container/test request and such verification has been carried out at the point generation of the said specimen by the sender. NSRL will be responsible Only for the analytical part of test carried out. All other responsibility will be of referring Laboratory.

Note:(LL-VeryLow,L-Low,H-High,HH-VeryHigh ,A-Abnormal)

*Aakash*

**Dr. Aakash Shah**

M.D. (Pathologist) G-20106

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Printed On : 17-Jul-2025 20:27



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