Medical Laboratory Report

Ms. -- PID NO: Age:	**Reference: SELF** **Sample Collected At:** Max Healthcare Institute Limted. 1, Press Enclave Road, Saket, New Delhi-110017,gst No-07aadcm0815b1z4Zone: Malviya Nagar Processing Location:- Metropolis Healthcare Ltd,Unit No409-416,4th Floor,Commercial Building-1,Kohinoor Mall,Mumbai-70	**VID: 230111503333065** Registered On: 07/01/2024 04:24 PM Collected On: 07/01/2024 4:23PM Reported On: 18/01/2024 06:00 PM

Enzyme Analysis of Arylsulfatase A** and Arylsulfatase B **

Clinical History: Not Enclosed.

Leukocyte Enzyme Activity:

Test (units)	Disorder	Results	Biological Reference Interval (Mean±SD)	Status
Arylsulfatase A (nmol/17hr/mg)	Metachromatic Leukodystrophy	235.0	67-396 (187.5 ± 63.9)	Normal
Arylsulfatase B (nmol/hr/mg)	MPS VI	68.4	84-452 (231.6±22.3)	Subnormal
*Beta Galactosidase (nmol/hr/mg)	MPS IV B	110.9	70-324 (148.17± 35.7)	Normal

* Reference enzyme.

Method: Artificial chromogenic & fluorogenic substrates.

Result: A normal enzyme activity of arylsulfatase A whereas a **subnormal enzyme activity (~27.9 % mean normal activity)** of arylsulfatase B and normal activity of arylsulfatase A is obtained in leukocytes.

Interpretation: Normal activity of arylsulfatase A in leukocytes may rule out the possibility of Metachromatic Leukodystrophy. In classical cases of **Maroteaux-Lamy (MPS VI) disease a** subnormal enzyme activity of Arylsulfatase B in leukocytes is found to be less than ~10% of mean normal. However, in this patient a subnormal activity of **~27.9%** mean normal is obtained hence further clinical corelation is recommended.

Recommendations: *ARSB* gene mutation analysis is recommended for identification of causative/ carrier mutation/s of the patient/ parents.

Note: It is presumed that the specimen used to perform the test belongs to the patient specified above, such verification having been carried out at the collection level of the sample.
Please correlate with clinical findings and other test findings.

References: ---NA---

*** End Of Report ***

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