

Test Definition: MPS1Z

Hurler Syndrome, Full Gene Analysis, Varies

Reporting Title: Hurler Syndrome, Full Gene Analysis **Performing Location:** Rochester

Ordering Guidance:

First-tier testing for mucopolysaccharidosis type I is available. Order either IDUAW / Alpha-L-Iduronidase, Leukocytes or PLSD / Lysosomal and Peroxisomal Storage Disorders Screen, Blood Spot. Be aware that these tests are not reliable for carrier testing.

For diagnostic testing or monitoring ongoing therapy, order MPSBS / Mucopolysaccharidosis, Blood Spot.

Shipping Instructions:

Specimen preferred to arrive within 96 hours of collection.

Specimen Requirements:

Patient Preparation: A previous bone marrow transplant from an allogenic donor will interfere with testing. Call 800-533-1710 for instructions for testing patients who have received a bone marrow transplant.

Submit only 1 of the following specimens:

Preferred: Specimen Type: Whole blood Container/Tube: Preferred: Lavender top (EDTA) or yellow top (ACD) Acceptable: Any anticoagulant Specimen Volume: 3 mL Collection Instructions: 1. Invert several times to mix blood. 2. Send whole blood specimen in original tube. Do not aliquot. Specimen Stability Information: Ambient (preferred)/Refrigerated

Specimen Type: Cultured fibroblasts Container/Tube: T-75 or T-25 flask Specimen Volume: 1 Full T-75 flask or 2 full T-25 flasks Specimen Stability Information: Ambient (preferred)/Refrigerated <24 hours Additional Information: A separate culture charge will be assessed under CULFB / Fibroblast Culture for Biochemical or Molecular Testing. An additional 3 to 4 weeks is required to culture fibroblasts before genetic testing can occur.

Supplies: Fibroblast Biopsy Transport Media (T115)
Container/Tube: Sterile container with any standard cell culture media (eg, minimal essential media, RPMI 1640). The solution should be supplemented with 1% penicillin and streptomycin.

Specimen Volume: 4-mm punch

Specimen Type: Skin biopsy

Specimen Stability Information: Refrigerated (preferred)/Ambient

Additional Information: A separate culture charge will be assessed under CULFB / Fibroblast Culture for Biochemical or Molecular Testing. An additional 3 to 4 weeks is required to culture fibroblasts before genetic testing can occur.



Test Definition: MPS1Z

Hurler Syndrome, Full Gene Analysis, Varies

Acceptable:	
Specimen Type: Blood spot	
Supplies: Card - Blood Spot Collection (Filter Paper) (T493)	
Container/Tube:	
Preferred: Collection card (Whatman Protein Saver 903 Paper)	
Acceptable: PerkinElmer 226 (formerly Ahlstrom 226) filter paper, or blood spot collection card	
Specimen Volume: 2 to 5 Blood spots	
Collection Instructions:	
1. An alternative blood collection option for a patient older than 1 year is a fingerstick. For detailed instruct	ions, see
How to Collect Dried Blood Spot Samples.	
2. Let blood dry on the filter paper at ambient temperature in a horizontal position for a minimum of 3 hou	rs.
3. Do not expose specimen to heat or direct sunlight.	
4. Do not stack wet specimens.	
5. Keep specimen dry.	
Specimen Stability Information: Ambient (preferred)/Refrigerated	
Additional Information:	
1. Due to lower concentration of DNA yielded from blood spot, it is possible that additional specimen may b	be required to
complete testing.	
2. For collection instructions, see <u>Blood Spot Collection Instructions</u>	
3. For collection instructions in Spanish, see <u>Blood Spot Collection Card-Spanish Instructions</u> (T777)	
4. For collection instructions in Chinese, see <u>Blood Spot Collection Card-Chinese Instructions</u> (T800)	
Francis	
Forms:	
1. New York Clients-Informed consent is required. Document on the request form or electronic order that	a copy is on

<u>1. New York Clients-Informed consent is required.</u> Document on the request form or electronic order that a copy is on file. The following documents are available in Special Instructions:

-Informed Consent for Genetic Testing (T576)

-Informed Consent for Genetic Testing-Spanish (T826)

2. Molecular Genetics: Biochemical Disorders Patient Information (T527) in Special Instructions

Specimen Type	Temperature	Time	Special Container
Varies	Varies		

Result Codes:

Result ID	Reporting Name	Туре	Unit	LOINC®
53950	Result Summary	Alphanumeric		50397-9
53951	Result	Alphanumeric		82939-0
53952	Interpretation	Alphanumeric		69047-9
53953	Additional Information	Alphanumeric		48767-8
53954	Specimen	Alphanumeric		31208-2
53955	Source	Alphanumeric		31208-2
53956	Released By	Alphanumeric		18771-6

 $\ensuremath{\mathsf{LOINC}}\xspace^{\ensuremath{\mathbb{R}}}$ and CPT codes are provided by the performing laboratory.



Test Definition: MPS1Z

Hurler Syndrome, Full Gene Analysis, Varies

Supplemental Report:

No

CPT Code Information:

81406 IDUA (iduronidase, alpha-L-) (eg, mucopolysaccharidosis type I), full gene sequence88233-Tissue culture, skin or solid tissue biopsy (if appropriate)88240-Cryopreservation (if appropriate)

Reflex Tests:

٦	Fest Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
C	CULFB	Fibroblast Culture for Genetic Test	1	88233	No	Yes

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Туре	Unit	LOINC®
CULFB	52327	Result Summary	Alphanumeric		50397-9
CULFB	52329	Interpretation	Alphanumeric		69965-2
CULFB	52328	Result	Alphanumeric		82939-0
CULFB	CG770	Reason for Referral	Alphanumeric		42349-1
CULFB	CG899	Specimen	Alphanumeric		31208-2
CULFB	52331	Source	Alphanumeric		31208-2
CULFB	52332	Method	Alphanumeric		85069-3
CULFB	54625	Additional Information	Alphanumeric		48767-8
CULFB	52333	Released By	Alphanumeric		18771-6

Reference Values:

An interpretive report will be provided.