MAYO CLINIC LABORATORIES

**NEW TEST**

Notification Date: September 18, 2023
Effective Date: October 17, 2023

# Iduronate-2-Sulfatase, Leukocytes

**Test ID:** I2SWB

## Useful for:
Supporting the biochemical diagnosis of mucopolysaccharidosis II (MPS II; Hunter syndrome) in whole blood specimens

This test is **not useful fo**r carrier detection for MPS II.

## Genetics Information:
This test provides diagnostic testing for individuals with positive newborn screen results or clinical signs and symptoms suspicious for mucopolysaccharidosis type II (MPS II, Hunter syndrome). If an enzyme deficiency is

## Methods:
Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)

## Reference Values:
>2.20 nmol/hour/mg protein.

An interpretive report will be provided.

## Specimen Requirements:

| | |
|---|---|
| **Preferred:** | Yellow top (ACD solution B) |
| **Acceptable:** | Yellow top (ACD solution A) or lavender top (EDTA) |
| **Specimen Volume:** | 6 mL |
| **Collection Instructions:** | Send whole blood specimen in original tube. **Do not aliquot.** |
| **Minimum Volume:** | 5 mL |

## Specimen Stability Information:

| Specimen Type | Temperature | Time |
|---|---|---|
| Whole Blood ACD | Refrigerated (preferred) | 6 days |
| | Ambient | 6 days |

## Cautions:

Individuals with pseudodeficiency alleles can show reduced enzyme activity.

Carrier status (heterozygosity) for these conditions cannot be reliably detected.

Enzyme levels may be normal in individuals receiving enzyme replacement therapy or who have undergone hematopoietic stem cell transplant.

Iduronate-2-sulfatase can also be deficient in individuals with multiple sulfatase deficiency.

## CPT Code:

82657

**Day(s) Performed:**
Preanalytical processing: Monday through Saturday
Testing performed: Tuesday

**Report Available:**
8 to 15 days

## Questions

Contact Melissa Tricker-Klar, Laboratory Resource Coordinator at 800-533-1710.