Lab Dept: Urine/Stool

Test Name: MUCOPOLYSACCHARIDE SCREEN, (MPS), URINE

General Information

Lab Order Codes: MSUS

Synonyms: Acid Mucopolysaccharides; AMPS; Berry Spot; Chondroitin Sulfate;

Dermatan Sulfate; GAGS; Glycoaminoglycans; Heparan Sulfate; Hurler's Syndrome; Hunter Syndrome; Keratan Sulfate; Mucopolysaccharides;

CPT Codes: 83864 – Mucopolysaccharides, acid, quantitative

82542 – Mucopolysaccharide screen (column chromatography, includes mass spectrometry, if performed, non-drug analyte(s) not elsewhere

specified, qualitatitive or quantitative, each specimen

Test Includes: Urine mucopolysaccharides qualitative with interpretive report and

quantitative reported in mg/mmol/creatinine.

Logistics

Test Indications: Monitoring patients with MPS who have had bone marrow transplants or are

receiving enzyme therapy or screening for mucopolysaccharidosis (MPS).

Lab Testing Sections: Urine/Stool – Sendouts

Referred to: Mayo Medical Laboratories (MML Test: MPSSC)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 10 - 18 days

Special Instructions: Early morning specimen preferred

Specimen

Specimen Type: Urine, random

Container: Plastic leakproof container (No preservatives)

Draw Volume: 10 mL (Minimum: 3 mL) random urine

Processed Volume: Same as Draw Volume

Collection: A random urine sample may be obtained by voiding into a urine cup and is

often performed at the laboratory. Bring the refrigerated container to the lab. Make sure all specimens submitted to the laboratory are properly labeled

with the patient's name, medical record number and date of birth.

Special Processing: Lab Staff: Mix random sample and fill a 10 mL urine tube. Freeze

immediately. Ship at frozen temperatures.

Patient Preparation: Morning specimen preferred

Sample Rejection: Warm specimens; mislabeled and unlabeled specimens

Interpretive

Reference Range: Mucopolysaccharides, Qu

Mucopolysaccharides, Qualitative: Interpretive report	
Mucopolysaccharides, Quantitative:	
Age:	Range (mg/mmol creatinine):
0 – 4 months:	≤53.0
5 - 18 months:	≤31.0
19 months – 2 years:	≤24.0
3 – 5 years:	≤16.0
6 – 10 years:	≤12.0
11 – 14 years:	≤10.0
>14 years:	≤6.5

Critical Values: N/A

Limitations: Using this assay, a normal value for total GAG can occasionally be obtained

on a specimen that yields a diagnostic TLC pattern (i.e., false-negative results). Occasionally, an abnormal value for total GAG will be obtained on

a specimen that yields a normal TLC pattern.

Methodology: Mucopolysaccharides, Quantitative: Spectrophotometry (SP)

Mucopolysaccharides, Qualitative: Thin Layer Chromatography (TLC)

References: <u>Mayo Medical Laboratories Web Page</u> November 2017

Updates: 1/28/2016:CPT update