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:	8 - 16 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

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Interpretive

Reference Range:

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: Mayo Medical Laboratories Web Page August 2015

Updates: 1/28/2016:CPT update