Lab Dept: Urine/Stool

Test Name: OLIGOSACCHARIDE SCREEN, URINE

General Information

Lab Order Codes:	OLGO
Synonyms:	N/A
CPT Codes:	84376 – Sugars (mono-, di-, oligosaccharides); single qualitative, each specimen
Test Includes:	This is a screening method for a subset of lysosomal storage disorders including: alpha-mannosidosis, aspartylglucosaminuria, fucosidosis, Schindler disease, GM1 gangliosidosis, Sandhoff disease, sialidosis, galactosialidosis, mucolipidoses types II and III, and Pompe disease.

Logistics

Test Indications:	Investigation of possible oligosaccharidoses
Lab Testing Sections:	Chemistry - Sendouts
Referred to:	Mayo Medical Laboratories (MML Test: OLIGU)
Phone Numbers:	MIN Lab: 612-813-6280 STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	4 – 8 days; performed Monday and Wednesday
Special Instructions:	Include family history, clinical condition (asymptomatic or acute episode), diet, and drug therapy information.

Specimen

Specimen Type:	Urine, random collection
Container:	Plastic leakproof container (No preservatives)
Draw Volume:	8 mL (Minimum: 2 mL) 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: Aliquot specimen into a 13 mL urine tube, no preservative. Freeze immediately. Store and ship at frozen temperatures.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimens

Interpretive

Reference Range:	An interpretive report will be provided. This is a screening test; not all oligosachharidoses are detected. The resulting excretion profile may be characteristic of a specific disorder; however, abnormal results require confirmation by enzyme assay or molecular genetic testing. When abnormal results are detected with characteristic patterns, a detailed interpretation is given, including an overview of results and significance, a correlation to available clinical information, elements of differential diagnosis, recommendations for additional confirmatory studies (enzyme assay, molecular genetic analysis).
Critical Values:	N/A
Limitations:	The test can give false-negative results, especially in older patients with mild clinical manifestation. This test may give false-positive Pompe disease results, especially in pediatric patients on infant formula. Enzyme or molecular analysis is required to confirm suspected diagnosis.
Methodology:	Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry (MALD-TOF MS)
References:	Mayo Medical Laboratories November 2017