

## Carbohydrate, Urine

**Test ID:** CHOU

**Explanation:** Changes including method, specimen stability, reference values, result codes and CPT coding will be implemented on the effective date.

<b>Current Method</b> Thin-Layer Chromatography (TLC), Qualitative	<b>New Method</b> Gas Chromatography-Mass Spectrometry (GC-MS)
<b>Current Ordering Guidance</b> This test is not appropriate for evaluation of an abnormal newborn screen for galactosemia. For those cases, order GCT / Galactosemia Reflex, Blood and consider GAL1P / Galactose-1-Phosphate, Erythrocytes and GATOL / Galactitol, Quantitative, Urine.	<b>New Ordering Guidance</b> This is a quantitative analysis of carbohydrate excretion in the urine.  This test is <b>not appropriate</b> for evaluation of an abnormal newborn screen for galactosemia. For those cases, order GCT / Galactosemia Reflex, Blood and consider GAL1P / Galactose-1-Phosphate, Erythrocytes and GATOL / Galactitol, Quantitative, Urine.
<b>Current Testing Algorithm</b> Testing begins with carbohydrate analysis. If qualitative results are normal or abnormal but not indicative of galactose, testing is complete.  If qualitative results indicate the presence of galactose, then quantitative testing for galactose will be performed at an additional charge.	<b>New Testing Algorithm</b> Qualitative testing for the presence of reducing substances is performed first followed by quantitative analysis of carbohydrates including fructose, galactose, xylose, glucose, sucrose, lactose, maltose, and raffinose.
<b>Current Necessary Information</b> none	<b>New Necessary Information</b> Patient's age is required
<b>Current Reflex Tests</b> GALU – Galactose, Quantitative, Urine	<b>New Reflex Tests</b> None
<b>Current CPT Code</b> 84377-Carbohydrate 82760-Galactose (if appropriate)	<b>New CPT Code</b> 84379

Current Specimen Stability		
Specimen	Temperature	Time
Urine	Frozen (preferred)	21 days
	Refrigerated	21 days

New Specimen Stability		
Specimen	Temperature	Time
Urine	Frozen (preferred)	42 days

Current Reference Value
Negative
If positive, carbohydrate is identified.

New Reference Value			
Reducing Substances			
Negative			
Age range	<12 months	12 months – 18 years	≥19 years
Xylose	< or =13	< or = 38	< or = 9
Fructose	< or =32	< or = 31	< or =16
Galactose	< or =117	< or = 32	< or = 5
Glucose	< or =139	< or = 15	< or = 22
Sucrose	< or = 27	< or = 46	< or =20
Lactose	< or = 160	< or = 18	< or = 5
Maltose	< or = 5	< or = 1	< or = 2
Raffinose	< or =1	< or = 1	< or = 1
All results reported as mmol/mol creatinine			

Current Result Codes	
Result ID	Reporting Name
9255	Carbohydrate, U

New Result Codes	
Result ID	Reporting Name
622708	Interpretation
622709	Reducing Substances
622710	Xylose
622711	Fructose
622712	Galactose
622713	Glucose
622714	Sucrose
622715	Lactose
622716	Maltose
622717	Raffinose
622744	Reviewed By

Current Report Available
8 to 15 days

New Report Available
3 to 9 days

## Questions

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