



LAB #: U000000-0000-0  
 PATIENT: Sample Patient  
 ID: PATIENT-S-01720  
 SEX: Male  
 AGE: 53

CLIENT #: 12345  
 DOCTOR:  
 Doctor's Data, Inc.  
 3755 Illinois Ave.  
 St. Charles, IL 60174

## Porphyrins; Urine

PORPHYRINS			
	RESULT nmol/g creatinine	REFERENCE INTERVAL	PERCENTILE 95 <sup>th</sup> 99 <sup>th</sup>
Uroporphyrins	27	< 17	
Heptacarboxylporphyrins	1.9	< 3	
Hexacarboxylporphyrins	0.68	< 3	
Pentacarboxylporphyrins	0.66	< 2.5	
Coproporphyrin I	22	< 20	
Coproporphyrin III	160	< 60	
Coproporphyrin I/Coproporphyrin III	0.14	< 0.8	
Total Porphyrins	210	< 90	
Precoproporphyrin I*	1.3	< 2	
Precoproporphyrin II*	0.23	< 1.2	
Precoproporphyrin III*	0.1	< 1.2	
Total Precoproporphyrins*	1.6	< 4	
Precoproporphyrins*/Uroporphyrins	0.061	< 0.1	

INFORMATION	
<p>Urinary porphyrins are oxidized intermediate metabolites of heme biosynthesis and can serve as biomarkers of disorders in heme production. Abnormal porphyrin profiles have been associated with genetic disorders, poor nutritional status, oxidative stress, and high level exposure to toxic chemicals or toxic metals. The ratio of Precoproporphyrins-to-Uroporphyrins is reported to increase the sensitivity for detecting abnormalities in individuals with low heme biosynthesis. Alcohol, sedatives, analgesics, antibiotics estrogens and oral contraceptives can affect the levels of urinary porphyrins. Anemia, pregnancy, and liver disease can also affect porphyrin metabolism. The Urine Porphyrins test is best used in conjunction with urine toxic metals pre- and post-provocation testing.</p>	<p><b><u>Porphyrins Pattern Recognition Guide:</u></b></p> <p><u>Mercury</u> ↑ Penta, ↑ Copro III, ↑ Precopros, ↑ Precorpros : Uros</p> <p><u>Arsenic</u> ↑ Uros, ↑ Copro I : Copro III</p> <p><u>Lead</u> ↑ Copro III</p> <p><u>Hexachlorobenzene, Dioxin</u> ↑ Uros</p> <p><u>Methylchloride,</u>  <u>Polyvinylchloride,</u> ↑ Copros  <u>Polybrominated biphenyl</u></p>

URINE CREATININE							
	RESULT mg/dL	REFERENCE INTERVAL	-2SD	-1SD	MEAN	+1SD	+2SD
Creatinine	76.7	45- 225					

SPECIMEN DATA		
Comments:		
Date Collected: 5/16/2014	Method: HPLC	Collection Period: Random
Date Received: 5/17/2014	<dl: less than detection	Volume:
Date Completed: 5/19/2014		
<p>*Precoproporphyrins are atypical porphyrins associated with high-level mercury exposure as described in Woods, J et al. J. Toxicol. Env. Hlth. 40,235-46(1993) and Morita, Y et al. Porphyrins 14,93-7(2005). Precoproporphyrins are intended for Research Use Only. Not for use in diagnostic procedures.</p>		

# Abbreviated Porphyrinogen/Heme Metabolism

