

Requisition #:	9900001	Practitioner:	NO PHYSICIAN
Patient Name:	Report Masked	Date of Collection:	12/01/2022
Patient Age:	17	Time of Collection:	Not Given
Sex:	M	Report Date:	08/09/2023

Urine Porphyrins

Compound	Results		Range		
	nmol/L	nmol/g CREAT	nmol/g CREAT		
Uroporphyrins (UP)	3.6	3.6	0	-	24
Heptacarboxy (7-CP)	3.8	3.8	0	-	13
Hexacarboxy (6-CP)	6.7	6.7	0	-	4
Pentacarboxy (5-CP)	7.2	7.2	0	-	10
Precoproporphyrin (PreCP)	5.0	5.0	0	-	9
Coproporphyrins I, III (CP)	15.3	15.3	0	-	153

CREAT (Creatinine) 1.00 g/L

Interpretation:

- > High levels of 5-CP, PreCP and CP have been associated with Hg exposure ^{1, 2, 3}
- > High levels of 6-CP, 5-CP, PreCP and CP were found in Autistic children ⁴
- > High levels of UP, and CP have been associated with As, Pb exposure ⁵
- > High levels of UP suggestive of Aluminum exposure ⁶
- > High levels of UP, and 7-CP strongly increased in Porphyria cutanea tarda ⁷
- > High levels of UP, CP strongly increased in either acute intermittent porphyria or porphyria variegata ^{7, 8}
- > High levels of porphyrins may be caused by genetics, numerous environmental chemicals, drugs, diseases, and alcohol ^{7, 8}

¹ Woods, J.S, Bowers, M.A, and Davis, H.A. Toxicol. Appl. Pharmacol. 110, 464-476 (1991)

² Woods, J.S, Martin, M.D., Naleway, C.A., and Echeverria, D. J. Toxicol. Environ. Health, 40:235-246 (1993).

³ Woods, J.S. Can. J. Physiol. Pharmacol. 74:210-215 (1996)

⁴ Nataf, R, Skorupka, C, Amet, L, Lam, A, Springbett, A and Lathe, R. Toxicol. And Applied Pharmacol. 214: 99-108 (2006)

⁵ Fowler, B. A and Mahaffey, K.R. Environ. Health Perspec. 25:87-90 (1978)

⁶ Nasiadek M , Chmielnicka J, Subdys J., Ecotoxicol Environ Saf. 48:11-17 (2001)

⁷ Doss, M.O, Kuhnel, A, and Gross, U. Alcohol Alcoholism 35: 109-125 (2000)

⁸ Elder, G.H, Gray, C. H, and Nicholson, D.C. J. Clin. Path., 25:1013-1033 (1972)

Analysis by HPLC with fluorescence detection and performed by Laboratory Corporation of America, LabCorp, Burlington, NC.

This test was developed, and its performance characteristics determined by Mosaic Diagnostics Laboratory. It has not been cleared or approved by the US Food and Drug Administration.