THIOPURINE DRUG METABOLITES

Effective January 26, 2016, the above test will become orderable. As part of the UCDMC Choosing Wisely Initiative, this replaces the test formerly sent to Prometheus and is performed at ARUP laboratories. This test is performed with newer methodology with greater sensitivity, specificity, and cost-effectiveness.

**COLLECT:** EDTA 4.0 mL
**TAT:** 1-6 days
**Methodology:** Quantitative Liquid Chromatography/Tandem Mass Spectrometry
**Reference Range:** 230 to 400 pmol/8 x 10^8 RBC

Concentrations of 6-thioguanine nucleotide (6-TGN) less than 230 pmol/8 x 10^8 RBC may indicate a reduced response to therapy; 6-TGN concentrations greater than 400 pmol/8 x 10^8 RBC may indicate a higher risk for leukopenia. Concentrations of 6-methyl mercaptopurine nucleotide (6-MMPN) greater than 5700 pmol/8 x 10^8 RBC may indicate a higher risk for hepatotoxicity.

If you have questions or need additional information please contact Laboratory Client Services at 734-7373 or email pathologyclientservices@ucdmc.ucdavis.edu.