

Specimen Collected: 31-May-23 15:47

Thiopurine Metabolites in RBC Procedure	Result	Units	Reference Interval
6-Thioguanine RBC	800 ^H ⁱ¹	pmol/8x10(8)RBC	[235-450]
6-Methylmercaptopurine RBC	8000 ^H	pmol/8x10(8)RBC	[<=5700]

Test Information

il: 6-Thioguanine RBC

INTERPRETIVE INFORMATION: Thiopurine Metabolites in RBC

Thiopurine drug therapy is used to treat autoimmune diseases, inflammatory bowel disease, acute lymphoblastic leukemia, and to prevent rejection after solid organ transplant. Thiopurine drugs are metabolized to active 6-thioguanine nucleotides, which are regulated by thiopurine methyltransferase (TPMT) and nudix hydrolase 15 (NUDT15). Certain variants in the TPMT and/or NUDT15 genes can be associated with an accumulation of cytotoxic metabolites that increase the risk of drug-related toxicity with standard doses of thiopurine drugs. Thiopurine metabolites concentrations are used to assess therapeutic and toxic concentrations of thiopurine drugs.

*=Abnormal, #=Corrected, C=Critical, f=Result Footnote, H-High, i-Test Information, L-Low, t-Interpretive Text, @=Performing lab

Unless otherwise indicated, testing performed at:

ARUP Laboratories

500 Chipeta Way, Salt Lake City, UT 84108

Laboratory Director: Jonathan R. Genzen, MD, PhD

ARUP Accession: 23-151-900094

Report Request ID: 17757652

Printed: 01-Jun-23 09:23