

Overview**Method Name**

High Pressure Liquid Chromatography (HPLC)

NY State Available

Yes

Specimen**Specimen Type**

Whole Blood EDTA

Specimen Required**Specimen Type:** Whole Blood**Container/Tube:** Lavender top (EDTA)**Specimen volume:** 5 mL**Collection Instructions:** Send 5 mL whole blood in original tube refrigerated**Specimen Minimum Volume**

Pediatric Minimum Volume: 3 mL

Reject Due To

Hemolysis	Gross reject; Mild OK
Lipemia	NA
Icterus	NA
Other	Reject if specimen is other than EDTA whole blood

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Whole Blood EDTA	Refrigerated (preferred)	8 days	
	Ambient	72 hours	

Clinical and Interpretive**Reference Values**

Units of Measure: pmol/8 x 10(8) RBC

Metabolite Reference Range

6-TGN 230-400

6-MMPN <5700

Proprietary and patented technology by Prometheus Laboratories, Inc. The therapeutic range and toxic thresholds were established in an IBD patient population receiving azathioprine or 6-mercaptopurine. Metabolite testing should not replace laboratory monitoring for toxicity.

Clinical Reference

Dubinsky M, et al. Pharmacogenomics and metabolite

measurement for 6-mercaptopurine therapy in patients with

inflammatory bowel disease. *Gastroenterology*. 2000;118:705-713.

Seidman EG. Recent Advances in the diagnosis and treatment

of pediatric inflammatory bowel disease. *Gastroenterol Rep*.2000;

1:248-252.

Cuffari C, et al. Utilisation of erythrocyte 6-thioguanine metabolite

levels to optimize azathioprine therapy in patients with inflammatory

bowel disease. *Gut*. 2001;48:642-646.

Seidman, EG. Clinical use and practical application of TPMT Enzyme

and 6-mercaptopurine metabolite monitoring in IBD. *Rev*

Gastroenterol Disord. 2003;3(suppl 1):S30-S38.

Rumbo C, et al. Azathioprine metabolite measurements in the

treatment of autoimmune hepatitis in pediatric patients: A preliminary

report. *J Ped Gastro Nutr*. 2002;35:391-398.

Lennard L, et al. The clinical pharmacology of 6-mercaptopurine.

Eur J Clin Pharmacol. 1992;43(4):329-339.

Lennard L. Clinical implication of thiopurine methyltransferase-Optimization

of drug dosage and potential drug interactions. *Ther Drug Monit* 1998;

20(5):527-531.

Louis E, Belaiche J. Optimizing treatment with thioguanine derivative

in inflammatory bowel disease. *Best Pract Res Clin Gastroenterol*

2003;17(1):37-46.

Performance

PDF Report

No

Analytic Time

3 days

Maximum Laboratory Time

5 - 7 days

Performing Laboratory Location

Prometheus Laboratories, Inc. Therapeutics and Diagnostics

Fees and Codes

Fees

- Authorized users can sign in to [Test Prices](#) for detailed fee information.
- Clients without access to Test Prices can contact [Customer Service](#) 24 hours a day, seven days a week.
- Prospective clients should contact their Regional Manager. For assistance, contact [Customer Service](#).

CPT Code Information

82542

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
FPMET	Prometheus Thiopurine Metabolites	82869-9

Result ID	Test Result Name	Result LOINC Value
Z1501	6-TGN Metabolite Result	32660-3
Z1502	6-TGN Metabolite Result Assessment	Not Provided
Z1503	6-MMPN Metabolite Result	32654-6
Z1504	6-MMPN Metabolite Result Assessment	Not Provided