
Lab Dept: **Anatomic Pathology**

Test Name: **TPMT/NUDT15/CEP72 PANEL**

General Information

Lab Order Codes: NUDT

Synonyms: Thiopurine Methyltransferase, Nudix Hydrolase 15, Centrosomal Protein 72

CPT Codes: 81401 – Molecular pathology, Level 2

Test Includes: Thiopurine Methyltransferase (TPMT) Genotyping; Nudix Hydrolase 15 (NUDT15) Genotyping; Centrosomal Protein 72 (CEP72) Genotyping

Logistics

Test Indications: Identification of patients at risk for toxicity from thiopurine drugs.

Lab Testing Sections: Anatomic Pathology-Sendouts

Referred to: RPRD Diagnostics

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 7 – 10 days

Special Instructions: See [Special Processing](#) . Include a completed requisition with the specimen or with the patient presenting at the laboratory.

Specimen

Specimen Type: Whole blood

Container: Lavender (EDTA) top tube
Alternate: Buccal Swab

Draw Volume: 5 mL (Minimum: 3 mL) blood

Processed Volume: Same as Draw Volume

Collection: Routine blood collection

Special Processing: Lab Staff: Do Not centrifuge. Specimen should remain as whole blood in original collection container. Store and ship at refrigerated temperatures.

Note: Specimen stability – DNA must be extracted within 5 days of collection.

Patient Preparation: N/A

Sample Rejection: Mislabeled or unlabeled specimens

Interpretive

Reference Range: An interpretive report will be provided

Critical Values: N/A

Limitations: The presence of other TPMT, NUDT15 or CEP72 variants that are not detected in this assay may influence drug metabolism. Additional variants that are not detected but located proximally to variants interrogated may affect the assays ability to detect the above listed alleles.

Methodology: Real-time polymerase chain reaction with fluorescence detection.

References: [RPRD Diagnostics](#) April 2018

Update: 11/2/17: Added specimen stability information.
8/17/22: Added Alt specimen