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**Lab Dept:**                   **Anatomic Pathology**

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

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***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

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***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.

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***Specimen***

**Specimen Type:**         Whole blood

**Container:**              Lavender (EDTA) top tube

**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

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### ***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.