

## JAK2 Mutation (V617F) Analysis

Order Name: **JAK2 MUTAT**  
 Test Number: 9100185  
 Revision Date: 10/01/2022

TEST NAME	METHODOLOGY	LOINC CODE
JAK2 Mutation (V617F) Analysis	Qualitative PCR	

### SPECIMEN REQUIREMENTS

Specimen	Specimen Volume (min)	Specimen Type	Specimen Container	Transport Environment
Preferred	4mL (1mL)	Whole Blood	EDTA (Lavender Top)	Room Temperature

**Instructions**  
**Do Not use EDTA that has been sampled by an instrument or shared with any other testing.**

4mL(1mL) **Peripheral Whole Blood** in EDTA Lavender top tube. Please keep specimens at room temperature or refrigerated. **Do Not Centrifuge.**  
 Stability is 8 days room temperature and refrigerated.

### GENERAL INFORMATION

<b>Testing Schedule</b>	Dayshift- Friday
<b>Expected TAT</b>	5-6 Days
<b>Clinical Use</b>	Myeloproliferative disorders (MPDs) are clonal hematopoietic stem cell malignancies characterized by excessive production of blood cells by hematopoietic precursors. In addition to thrombotic and hemorrhagic complications, leukemic transformation can occur. The main members of MPD are Polycythemia Vera (PV), Essential Thrombocythemia (ET) and Idiopathic Myelofibrosis (MF). The molecular pathogenesis of most MPDs is unknown. This V617F mutation leads to constitutive tyrosine phosphorylation activity that promotes cytokine activity and induces erythrocytosis. The V617F mutation in JAK2 is a dominant gain-of function mutation that contributes to the expansion of the myeloproliferative disorder clone.
<b>Notes</b>	
<b>CPT Code(s)</b>	81270
<b>Lab Section</b>	Molecular Diagnostic