MAYO
Mayo Medical Laboratories
1-800-533-1710

NEW TEST ANNOUNCEMENT
NOTIFICATION DATE: May 3, 2013
EFFECTIVE DATE: May 8, 2013

*HLA-B*5801* GENOTYPE, ALLOPURINOL HYPERSENSITIVITY, BLOOD
Test ID: HLA58

USEFUL FOR:

- Predicting increased risk of hypersensitivity reactions to allopurinol
- Excluding patients at an elevated risk for allopurinol hypersensitivity syndrome from receiving allopurinol

METHODOLOGY: Qualitative allele-specific real-time Polymerase Chain Reaction (PCR)

REFERENCE VALUES: An interpretive report will be provided. Positivity for *HLA-B*5801* confers risk for hypersensitivity to allopurinol.

SPECIMEN REQUIREMENTS:
Container/Tube: Lavender top (EDTA)
Specimen Volume: 3 mL
Collection Instructions: Send specimen in original tube.
Minimum Volume: 0.35 mL

ADDITIONAL INFORMATION: Patients who had a heterologous blood transfusion within the preceding 45 days (6 weeks), or who have received an allogeneic bone marrow transplant, can have false genetic test results as human DNA present in the blood may be a mixture of patient and donor DNA. For these patients, saliva specimen (rather than blood) should be submitted, order HL58O, HLA-B*5801 Genotype, Allopurinol, Saliva.

FORMS: New York Clients-Informed consent is required. Please document on the request form or electronic order that a copy is on file. An Informed Consent for Genetic Testing (Supply T576) is available in Special Instructions.

SPECIMEN STABILITY INFORMATION:

Specimen Type	Temperature	Time
Whole Blood EDTA	Ambient (preferred)	
	Refrigerated	

CPT CODE: 81381- HLA Class I typing, high resolution (ie, alleles or allele groups); one allele or allele group (eg, B*57:01P), each

DAY(S) SET UP: Monday and Thursday

ANALYTIC TIME: 1 day

CAUTIONS:

- Rare, unreported *HLA-B58* alleles may occur and may or may not interfere with this assay. This assay also detects closely related, but rare, alleles including *HLA-B*5705, *5804, *5805, *5809, *5810, *5811, *5812, *5813, *5815, *5817, *5819, *5821, *5822, *5823, *5824* and *5828*. There are, as yet, no data indicating whether these subtypes are associated with hypersensitivity.

- Allogeneic bone marrow or stem cell transplants will interfere with testing. Call Mayo Medical Laboratories at 800-533-1710 or 507-266-5700 for instructions.

- Heterologous transfusions of blood that has not been depleted of leukocytes may interfere with testing for up to 4 to 6 weeks. DNA obtained from white cells may not provide useful information for patients who received a recent transfusion of blood that was not leukocyte-reduced. Wait 4 to 6 weeks until transfused cells have left the patient's circulation before drawing the patient's blood specimen for genotype testing.

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager or
Shirley Pokorski, MML Laboratory Technologist Resource Coordinator
Telephone: 800-533-1710