



**SOLUTE CARRIER ORGANIC ANION TRANSPORTER FAMILY MEMBER
 1B1 (*SLCO1B1*) GENOTYPE, STATIN, BLOOD**
 Test ID: SLC1B

USEFUL FOR:

- Aiding prediction of risk for statin-associated myopathy in patients beginning statin therapy, especially simvastatin therapy
- Determining a potential genetic effect related to statin intolerance in patients with statin-associated myopathy, especially related to simvastatin

ADDITIONAL TESTS:

Test ID	Reporting Name	Available Separately	Always Performed
NPLXT	Rapid DNA Extraction	No	Yes

TESTING ALGORITHM:

When this test is ordered, DNA extraction will always be performed at an additional charge. However, for multiple whole blood EDTA genotype test orders, only a single specimen is needed. The DNA extraction will only be charged once.

METHODOLOGY: Polymerase chain reaction (PCR) followed by 5'-nuclease end-point allelic discrimination analysis

REFERENCE VALUES: An interpretive report will be provided.

SPECIMEN REQUIREMENTS:

NOTE: Multiple genotype tests can be performed on a single specimen after a single extraction. See Multiple Whole Blood EDTA Genotype Tests in Special Instructions of the on-line test catalog for a list of tests that can be ordered together.

Container/Tube: Lavender top (EDTA)

Specimen Volume: 3 mL

Collection Instructions: Send specimen in original tube.

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 SLC10/61737 *SLCO1B1* Solute Carrier Organic Anion Transporter Family Member 1B1 (*SLCO1B1*) Genotype, Statin, 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	

CAUTIONS:

- This test may not be useful for patients taking a statin other than simvastatin.
- Simvastatin-related myopathy can occur in the absence of *SLCO1B1* *5.
- The presence of *SLCO1B1* *5 does not confer absolute risk for simvastatin-associated myopathy.
- This test does not detect polymorphism or mutations other than the specific *5 allele in exon 6.
- This test is not indicated for stand-alone diagnostic purposes.
- This test is not intended to be used to predict drug response.
- Drug-drug interactions and drug/metabolite inhibition must be considered.
- Blood transfusions or bone marrow transplantation prior to having blood drawn for DNA analysis can generate false results as DNA in the specimen may be a mix of patient and donor DNA. Alternative saliva specimen type can be ordered as SLC10/61737 Solute Carrier Organic Anion Transporter Family Member 1B1 (*SLCO1B1*) Genotype, Statin, Saliva.
- Rare polymorphisms exist that could lead to false-negative or false-positive results. If results obtained do not match the clinical findings, additional testing could be considered.

FEE: Please contact your Regional Manager for your account's fee information.

CPT CODE:**Solute Carrier Organic Anion Transporter Family Member 1B1 (SLCO1B1)****Genotype, Statin, Blood**

83898-Amplification, target, each nucleic acid sequence

83896 x 2-Nucleic acid probe, each

83912-Interpretation and report

Rapid DNA Extraction

83890-Molecular extraction

DAY(S) SET UP: Monday

ANALYTIC TIME: 1 day

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