

# CYP2C19 Genotype

**CPT Code:** 81225

**Order Code:** 1086

**ABN Requirement:** No

**Synonyms:** Cytochrome P450 2C19

**Specimen:** EDTA Whole Blood

**Volume:** 4.0 mL

**Minimum Volume:** 2.0 mL

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

## Collection:

1. Collect and label sample according to standard protocols.
2. Gently invert tube 10 times immediately after draw. DO NOT SHAKE.
3. Do not centrifuge.

**Please Note:** This germline genetic test requires physician attestation that patient consent has been received if ordering medical facility is located in AK, DE, FL, GA, IA, MA, MN, NV, NJ, NY, OR, SD, or VT or test is performed in MA.

**Special Instructions:** A separate EDTA whole blood tube is needed for molecular tests. Collect additional samples for other testing that requires EDTA whole blood. Multiple (up to 8) cardiovascular-related genetic tests can be performed on a single specimen. A second lavender-top (EDTA) tube is required if non-genetic tests are simultaneously ordered that require a lavender top (EDTA) tube. For whole blood samples, follow normal phlebotomy procedures.

**Transport:** Store EDTA whole blood at 2°C to 8°C after collection and ship the same day per packaging instructions provided with the Cleveland HeartLab shipping box.

## Stability:

**Ambient (15-25°C):** 8 days

**Refrigerated (2-8°C):** 8 days

**Frozen (-20°C):** 30 days

**Causes for Rejection:** Specimens other than EDTA whole blood; improper

labeling; samples not stored properly; samples older than stability limits

**Methodology:** Allele-Specific Primer Extension, Polymerase Chain Reaction (PCR)

**Turn Around Time:** 4 to 7 days

**Relative Range:** See Laboratory Report

**Clinical Significance:** This test detects variants in the CYP2C19 gene leading to altered enzyme activity and may require alternative treatments or altered drug dosage of a drug metabolized by CYP2C19 for optimal therapeutic response.

*The CPT codes provided are based on AMA guidelines and are for informational purposes only. CPT coding is the sole responsibility of the billing party. Please direct any questions regarding coding to the payer being billed.*