

TEST CHANGE

SC5b-9

3017902, SC5B-9

Specimen Requirements:

Patient Preparation:

Collect: Pink (K2EDTA), ~~T~~an (K2EDTA), ~~R~~oyal blue (K2EDTA), or ~~L~~avender (EDTA).

Specimen Preparation: Separate plasma within 2 hours (1 hour is preferable) by centrifugation ~~at 2700 rpm (1300-100-g) for 10 minutes.~~ Transfer plasma (minimum 0.5 mL) to an ARUP standard transport tube and freeze immediately.

Transport Temperature: CRITICAL FROZEN. Separate specimens must be submitted when multiple tests are ordered.

Unacceptable Conditions: Nonfrozen specimens. Specimens exposed to repeated freeze/thaw cycles. Grossly hemolyzed, lipemic, and icteric specimens. Serum samples. Heparinized and lithium samples.

Remarks:

Stability: Ambient: Unacceptable; Refrigerated: Unacceptable; Frozen: 30 days

Methodology: Quantitative Enzyme-Linked Immunosorbent Assay (ELISA)

Performed: Sun, Wed

Reported: 2-12 days

Note:

CPT Codes: 86160

New York DOH Approval Status: This test is New York DOH approved.

Interpretive Data:

Elevated soluble C5b-9 (SC5b-9) levels indicate recent or ongoing activation of the complement system, while normal or reduced levels suggest no excessive activation. High SC5b-9 concentrations are associated with transplant-associated thrombotic microangiopathy (TA-TMA), a complication of hematopoietic stem cell transplants. Increased SC5b-9 may also occur in various conditions involving primary or secondary complement activation, such as immune-complex disease, infection, atypical hemolytic uremic syndrome, and C3 glomerulopathies. Due to a low specificity for SC5b-9 testing, results should be interpreted in combination with other clinical and laboratory evidence of disease activity. Plasma SC5b-9 levels may be used to monitor the efficacy of complement inhibitor drugs, as elevated levels suggest insufficient complement blockage to

effectively prevent the formation of the terminal attack complex.

Reference Interval:

Test Number	Components	Reference Interval
	C5b9 Soluble Terminal Complement Complex	Less than or equal to 260 ng/mL