

TEST STATUS - NEW TEST

Notification Date: 2/26/2025

Effective Date: 3/5/2025

Test Name: Complement Activity Total (CH50)

Test ID: LAB6781

Explanation: This test is a new EPIC orderable for Complement Activity Total (CH50) testing sent to ARUP. This orderable should also take the place of Complement Activity Total (CH50) testing sent to other vendors.

Useful For: This test is useful to screen for suspected deficiency in the classical complement pathway.

Methodology: Quantitative Immunoturbidimetry

Reference Interval:

Low	38.6 U/mL or less
Normal	38.7-89.9 U/mL
High	90.0 U/mL or greater

Specimen Requirements:

Specimen Type:	Serum
Alternate Specimen:	N/A
Container/Tube:	Red top
Specimen Preparation:	Allow specimen to clot for one hour at room temperature. Separate serum from cells ASAP or within 2 hours of collection. Transfer 1 mL serum to an aliquot transport tube.
Specimen Volume:	1 mL (minimum 0.5 mL)
Pediatric Collection:	Same as above
Storage/Transport Temperature:	Frozen

Specimen Stability Information:

Specimen Type	Temperature	Time
Serum	Ambient	Unacceptable
Serum	Refrigerated	Unacceptable
Serum	Frozen	1 month

Reasons for Rejection: Improper specimen type including serum collected in separator tubes or left to clot at 2-8C; Improper specimen collection including lack of patient identification; Insufficient sample volume; Improper specimen transport or storage, including non-frozen specimens; Grossly hemolyzed or severely lipemic specimens

Recommendations: See the above indications.

CPT Code(s): 86162

Days(s) Performed: Sun-Sat

Report Available: 1-2 days

Questions: Please get in touch with Vanderbilt Medical Laboratories Customer Service at 615-875-5227 (5-LABS) or 800-551-5227 or visit our website: [Home | Vanderbilt Medical Laboratories \(vumc.org\)](http://vumc.org)