

Immunoglobulin Free Light Chains, Serum

Test ID: FLCS; performed at Mayo Clinic Laboratories Florida.

Useful for:

Monitoring serum from patients with monoclonal light chain diseases without a M-spike on protein electrophoresis

May be useful as a diagnostic test in patients in whom there is a suspicion of primary systemic amyloidosis, light chain deposition disease, or non-secretory myeloma

Profile Information:

Test ID	Reporting Name	Available Separately	Always Performed
KFLCS	Kappa Free Light Chain, S	No	Yes
LFLCS	Lambda Free Light Chain, S	No	Yes
KLRS	Kappa/Lambda FLC Ratio	No	Yes

Methods:

Turbidimetry

Reference Values:

KAPPA-FREE LIGHT CHAIN
0.33-1.94 mg/dL

LAMBDA-FREE LIGHT CHAIN
0.57-2.63 mg/dL

KAPPA/LAMBDA FLC RATIO
0.26-1.65

Specimen Requirements:

Collection Container/Tube:

Preferred: Serum gel

Acceptable: Red top

Submission Container/Tube: Plastic vial

Specimen Volume: 1.0 mL

Minimum Volume: 0.5 mL

Specimen Stability Information:

Specimen Type	Temperature	Time
Serum	Refrigerated (preferred)	28 days
	Ambient	72 hours
	Frozen	28 days

Cautions:

Elevated kappa and lambda (K/L) free light chain (FLC) may occur due to polyclonal hypergammaglobulinemia or impaired renal clearance. A specific increase in FLC (eg, FLC K:L ratio) must be demonstrated for diagnostic purposes.

This assay has not been established for use with the pediatric population

Moderate-to-marked lipemia may interfere with the ability to perform testing.

CPT Code:

83521 x 2

Day(s) Performed: Monday through Friday, Sunday

Report Available: 1 day

Questions

Contact Bonnie Meyers, Laboratory Technologist Resource Coordinator at 800-533-1710.