MAYO CLINIC LABORATORIES

Test Definition: FIFLC

Immunofixation with Free Light Chains, Quantitative, Urine

Overview

Method Name
Qualitative Immunofixation Electrophoresis/Quantitative Immunoturbidimetry

NY State Available
Yes

Specimen

Specimen Type
Urine

Specimen Required
Container/Tube: Two plastic aliquot tubes
Specimen Volume: 8 mL in 2 plastic aliquot tubes, each containing 4 mL
Collection Instructions:
1. Collect urine for 24 hours (No preservative).
2. Refrigerate specimen during the 24-hour collection.
3. Mix the collection and then aliquot urine (4 mL per aliquot) into two plastic aliquot tubes
4. **Collection volume and duration are required.**
5. Send refrigerated.

Specimen Minimum Volume
4 mL total, 2 vials each containing 2 mL

Reject Due To

All specimens will be evaluated by the processing and performing laboratories for test suitability.

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Urine	Refrigerated (preferred)	21 days	
	Frozen	180 days	

Clinical & Interpretive

Clinical Information

Refer to https://ltd.aruplab.com/

Reference Values

Total Protein: <150 mg/d
Free Urinary Kappa Light Chains: 0.00-32.90 mg/L
Free Urinary Kappa Excretion/Day: Refer to report
Free Urinary Lambda Light Chain: 0.00-3.79 mg/L
Free Urinary Lambda Excretion/Day: Refer to report
IFE Interpretation: By report

Interpretation

Results of urine free light chain testing can be used to monitor disease progression or response to therapy in patients for whom urine electrophoresis is unable to provide reliable Bence Jones protein quantification. The results of urine kappa and lambda free light chain quantitative values may be misleading in specimens with high levels of urinary polyclonal free light chains, and absent Bence Jones protein by immunofixation; therefore, correlation with urine immunofixation is required to identify inconsistent results.

Total urinary protein is determined turbidmetrically by adding the albumin and kappa and/or lambda light chains. This value may not agree with the total protein as determined by chemical methods, which characteristically underestimate urinary light chains.

Undetected antigen excess is a rare event but cannot be excluded. Free light chain results should always be interpreted in conjunction with other clinical and laboratory findings.

Performance

PDF Report

No

Day(s) Performed

Monday through Sunday

Report Available

1 to 9 days

Performing Laboratory Location

ARUP Laboratories

Fees & Codes

Fees

- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact Customer Service.

CPT Code Information

84156
86335
83521 x 2

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
FIFLC	Immunofix Free Light Chains, U	Not Provided

Result ID	Test Result Name	Result LOINC® Value
Z5897	Hours Collected	30211-7
Z5898	Total Volume	19153-6
Z5899	Total Protein	2889-4
Z5901	Free Urinary Kappa Light Chains	38176-4
Z5912	Free Urinary Kappa Excretion/Day	38177-2
Z5913	Free Urinary Lambda Light Chain	38178-0
Z5914	Free Urinary Lambda Excretion/Day	38169-9
Z5900	IFE Interpretation	49277-7