

Overview

Method Name

Qualitative Immunofixation Electrophoresis/Quantitative Immunoturbidimetry

NY State Available

Yes

Specimen

Specimen Type

Urine

Specimen Required

Specimen Type: Urine

Submission Container/Tube: Two 4-mL plastic aliquot tube(s)

Specimen Volume: 8 mL (Two 4-mL plastic aliquot tube(s))

Collection Instructions:

1. Collect urine for 24 hours (NO preservative).
2. Refrigerate specimen during the 24-hour collection.
3. Send specimen refrigerate in Two 4-mL plastic aliquot tube(s)
4. Collection volume and duration are required

Reject Due To

Thawing** Cold OK; Warm reject

Specimen Minimum Volume

4 mL (2 vials 2 mL each)

Specimen Stability Information

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

Clinical & Interpretive

Reference Values

Total Protein	Less than 150 mg/d
Free Urinary Kappa Light Chains	0.00-32.90 mg/L
Free Urinary Kappa Excretion/Day	By report
Free Urinary Lambda Light Chain	0.00-3.79 mg/L
Free Urinary Lambda Excretion/Day	By 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 underestimates urinary light chains.

Performance

PDF Report

No

Performing Laboratory Location

ARUP Laboratories

Fees & Codes

Test Classification

CPT Code Information

84156

86335

83520 x 2

LOINC® Information

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

Result ID	Reporting Name	LOINC®
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