HOTLINE: Effective February 18, 2020

New Test **3002104** **Immunofixation with Free Light Chains, Quantitative, Urine** **U IFE FLC**

Methodology: Qualitative Immunofixation Electrophoresis/Quantitative Immunoturbidimetry
Performed: Sun-Sat
Reported: 1-5 days

Specimen Required: Collect: 24-hour urine. Refrigerate during collection. Also acceptable: Random urine specimens and urine supernate.
Specimen Preparation: Transfer two 4 mL aliquots from a well-mixed 24-hour collection to individual ARUP Standard Transport Tubes. (Min: 4 mL)
Storage/Transport Temperature: Refrigerated.
Remarks: **Record total volume and collection time interval on transport tube and test request form.**
Stability (collection to initiation of testing): Ambient: Unacceptable; Refrigerated: 3 weeks; Frozen: 6 months

Reference Interval:

Components	Reference Interval
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

Interpretive Data: 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 turbidimetrically 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.

CPT Code(s): 84156; 86335; 83520 x2

New York DOH Approved.

HOTLINE NOTE: Refer to the Test Mix Addendum for interface build information.