

**TEST CHANGE**

**Monoclonal Protein Study, Expanded Panel, Serum**

2002715, IFE FLC

**Specimen Requirements:**

**Patient Preparation:**

**Collect:** Serum ~~separator tube~~ **Separator Tube** (SST).

**Specimen Preparation:** Separate from cells ASAP or within 2 hours of collection. Transfer 2.5 mL serum to an ARUP ~~standard transport tube~~ **Standard Transport Tube**. (Min: 2.0 mL)

**Transport Temperature:** Refrigerated.

**Unacceptable Conditions:** Plasma. Room temperature specimens.

**Remarks:**

**Stability:** After separation from cells: Ambient: Unacceptable; Refrigerated: 1 week; Frozen: 1 month

**Methodology:** Qualitative Immunofixation Electrophoresis (~~IFE~~)/Quantitative Capillary Electrophoresis/Quantitative Immunoturbidimetry/Colorimetry

**Performed:** Sun-Sat

**Reported:** 1-5 days

**Note:** A copy of the graph will follow the final report. This assay is highly sensitive to increasing concentrations of monoclonal free kappa or free lambda light chains in the serum of patients with evolving or relapsing myelomas.

**CPT Codes:** 82784 x3; 84155; 84165; 86334; 83521 x2

**New York DOH Approval Status:** This test is New York DOH approved.

**Interpretive Data:**

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.

**Reference Interval:**

Test Number	Components	Reference Interval		
	Albumin	3.75-5.01 g/dL		
	Alpha 1 Globulin	0.19-0.46 g/dL		
	Alpha 2 Globulin	0.48-1.05 g/dL		
	Beta Globulin	0.48-1.10 g/dL		
	Gamma	0.62-1.51 g/dL		
	Immunoglobulin A			
		Age	Reference Interval (mg/dL)	
		0-2 years	2-126	
		3-4 years	14-212	
		5-9 years	52-226	
		10-14 years	42-345	
		15-18 years	60-349	
		19 years and older	68-408	
	Immunoglobulin G			
		Age	Reference Interval (mg/dL)	
		0-2 years	242-1108	
		3-4 years	485-1160	
		5-9 years	514-1672	
		10-14 years	581-1652	
		15-18 years	479-1433	
		19 years and older	768-1632	
	Immunoglobulin M			
		Age	Reference Interval (mg/dL)	
		0-2 years	21-215	
		3-4 years	26-155	
		5-9 years	26-188	
		10-14 years	47-252	
		15-18 years	26-232	
		19 years and older	35-263	
	Total Protein, Serum	Refer to report. Reference intervals may vary based on instrumentation.		
	Kappa Qnt Free Light Chains	3.30 - 19.40 mg/L		
	Lambda Qnt Free Light Chains	5.71-26.30 mg/L		
	Kappa/Lambda Free Light Chain Ratio	0.26-1.65		
	<u>Monoclonal Protein</u>	<u>&lt;=0.00 g/dL</u>		

