

Reporting Title: Monoclonal Protein Expanded Panel,S
Performing Location: Mayo Clinic Jacksonville Clinical Lab

Specimen Requirements:
Patient Preparation: Fasting preferred but not required
Collection Container/Tube:
Preferred: Serum gel
Acceptable: Red top
Submission Container/Tube: Plastic vial
Specimen Volume: 2 mL
Collection Instructions: Centrifuge and aliquot serum into a plastic vial.

Specimen Type	Temperature	Time	Special Container
Serum	Refrigerated (preferred)	14 days	
	Ambient	72 hours	
	Frozen	14 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
81653	Immunofixation	Alphanumeric		74665-1
606977	Flag, Immunofixation	Alphanumeric		No LOINC Needed
TPE	Total Protein	Numeric	g/dL	2885-2
2769	Albumin	Numeric	g/dL	2862-1
2770	Alpha-1 Globulin	Numeric	g/dL	2865-4
2771	Alpha-2 Globulin	Numeric	g/dL	2868-8
2773	Beta-Globulin	Numeric	g/dL	2871-2
2774	Gamma-Globulin	Numeric	g/dL	2874-6
2785	A/G Ratio	Numeric		44429-9
22308	M spike	Numeric	g/dL	33358-3
22309	M spike	Numeric	g/dL	33358-3
15254	Impression	Alphanumeric		49296-7
LFLCS	Lambda Free Light Chain, S	Numeric	mg/dL	33944-0
KLRS	Kappa/Lambda FLC Ratio	Numeric		104546-7
KFLCS	Kappa Free Light Chain, S	Numeric	mg/dL	104544-2

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:
No

Components:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
TPE	Total Protein	1	84155	Yes	Yes, (order TP)
ELP	Protein Electrophoresis	1	84165	Yes	Yes, (order PEL)
IMFX	Immunofixation	1	86334	Yes	Yes, Order IMFXO)
KFLCS	Kappa Free Light Chain, S	1	83521	Yes	Yes, (order FLCS)
LFLCS	Lambda Free Light Chain, S	1	83521	Yes	Yes, (order FLCS)
KLRS	Kappa/Lambda FLC Ratio			Yes	Yes, (order FLCS)

CPT Code Information:

83521 x 2
84155
84165
86334
86334-Immunofixation Delta and Epsilon (if appropriate)

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
IFXED	Immunofixation Delta and Epsilon, S	1	86334	No	Yes

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
IFXED	606458	Immunofixation D and E	Alphanumeric		74665-1
IFXED	606981	Flag, Immunofixation D and E	Alphanumeric		No LOINC Needed

Reference Values:

PROTEIN, TOTAL
> or =1 year: 6.3-7.9 g/dL
Reference values have not been established for patients that are younger than 12 months of age.

PROTEIN ELECTROPHORESIS
Albumin: 3.4-4.7 g/dL
Alpha-1-globulin: 0.1-0.3 g/dL
Alpha-2-globulin: 0.6-1.0 g/dL
Beta-globulin: 0.7-1.2 g/dL
Gamma-globulin: 0.6-1.6 g/dL
M-spike: 0.0 g/dL

An interpretive comment is provided with the report.
Reference values have not been established for patients that are younger than 16 years of age

IMMUNOFIXATION
Immunofixation: No monoclonal protein detected
Flag, Immunofixation: Negative

KAPPA-FREE LIGHT CHAIN
0.33-1.94 mg/dL

LAMBDA-FREE LIGHT CHAIN
0.57-2.63 mg/dL

KAPPA/LAMBDA-FREE LIGHT-CHAIN RATIO
0.26-1.65