MAYO CLINIC
Mayo Medical Laboratories

Test Definition: MPSEX

Monoclonal Protein Study, Expanded Panel, Serum

Reporting Title: MPSS Expanded Panel, S
Performing Location: Rochester

Specimen Requirements:

Container/Tube:
Preferred: Red top
Acceptable: Serum gel
Specimen Volume: 2 mL
Collection Instructions: Fasting
Additional Information: If a urine specimen on the same patient will also be submitted, order MPSU/8823 Monoclonal Protein Study, Urine under a separate order number.

Specimen Type	Temperature	Time
Serum	Refrigerated (preferred)	7 days
	Frozen	14 days
	Ambient	72 hours

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
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		12851-2
81653	Immunofixation	Alphanumeric		33879-8
KFLC	Kappa Free Light Chain, S	Numeric	mg/dL	36916-5
LFLC	Lambda Free Light Chain, S	Numeric	mg/dL	33944-0
KLR	Kappa/Lambda FLC Ratio	Numeric		48378-4

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
TPE	Total Protein	1	84155	Yes	Yes (order TP)
ELP	Protein Electrophoresis	1	84165	Yes	No
IMFX	Immunofixation	1	86334	Yes	No
KFLC	Kappa Free Light Chain, S	1	83883	Yes	No
LFLC	Lambda Free Light Chain, S	1	83883	Yes	No
KLR	Kappa/Lambda FLC Ratio			Yes	No

Reference Values:

PROTEIN, TOTAL
> or =1 year: 6.3-7.9 g/dL
Reference values have not been established for patients that are <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
An interpretive comment is provided with the report.

IMMUNOFIXATION
Negative (reported as positive or 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