

Monoclonal Protein Study, Quantitative, Serum

Test ID: QMPSS; performed at Mayo Clinic Laboratories Florida.

Useful for:

Aiding in the diagnosis and monitoring of monoclonal gammopathies, when used in conjunction with free light chain studies.

This test alone is **not** considered an adequate screen for monoclonal gammopathies.

Profile Information:

Test ID	Reporting Name	Available Separately	Always Performed
QMPTS	Quantitative M-protein Isotype, S	No	Yes
IGA	Immunoglobulin A (IgA), S	Yes (Order IMMIG or IGA)	Yes
IMG	Immunoglobulin M (IgM), S	Yes (Order IMMIG or IGM)	Yes
IGG	Immunoglobulin G (IgG), S	Yes (Order IMMIG or IGG)	Yes
TMAB1	Therapeutic Antibody Administered?	No	Yes

Reflex Tests:

Test ID	Reporting Name	Available Separately	Always Performed
IFXED	Immunofixation Delta and Epsilon, S	Yes	No
IGD	Immunoglobulin D (IgD), S	Yes	No
IGE	Immunoglobulin E (IgE), S	Yes	No

Methods:

QMPTS: Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry (MALDI-TOF MS)

IGG, IGA, IGM: Nephelometry

TMAB1: Patient Information

Reference Values:

Monoclonal-protein Isotype Flag:

Negative

Interpretation:

No monoclonal protein detected.

IgG:

0-<5 months: 100-334 mg/dL

5-<9 months: 164-588 mg/dL

9-<15 months: 246-904 mg/dL

15-<24 months: 313-1,170 mg/dL

2-<4 years: 295-1,156 mg/dL

4-<7 years: 386-1,470 mg/dL

7-<10 years: 462-1,682 mg/dL

10-<13 years: 503-1,719 mg/dL

13-<16 years: 509-1,580 mg/dL

16-<18 years: 487-1,327 mg/dL

> or =18 years: 767-1,590 mg/dL

IgA:

0-<5 months: 7-37 mg/dL

5-<9 months: 16-50 mg/dL

9-<15 months: 27-66 mg/dL

15-<24 months: 36-79 mg/dL

2-<4 years: 27-246 mg/dL

4-<7 years: 29-256 mg/dL

7-<10 years: 34-274 mg/dL

10-<13 years: 42-295 mg/dL

13-<16 years: 52-319 mg/dL

16-<18 years: 60-337 mg/dL

> or =18 years: 61-356 mg/dL

IgM:

0-<5 months: 26-122 mg/dL

5-<9 months: 32-132 mg/dL

9-<15 months: 40-143 mg/dL

15-<24 months: 46-152 mg/dL

2-<4 years: 37-184 mg/dL

4-<7 years: 37-224 mg/dL

7-<10 years: 38-251 mg/dL

10-<13 years: 41-255 mg/dL

13-<16 years: 45-244 mg/dL

16-<18 years: 49-201 mg/dL

> or =18 years: 37-286 mg/dL

Specimen Requirements:

Supplies:	Sarstedt Aliquot Tube, 5 mL (T914)
Collection Container/Tube:	
Preferred:	Serum gel
Acceptable:	Red top
Submission Container/Tube:	Plastic vial
Specimen Volume:	2 mL total in 2 separate plastic vials, each containing 1 mL
Collection Instructions:	Centrifuge and aliquot serum into 2 plastic vials, each containing 1 mL
Minimum Volume:	1.5 mL

Specimen Stability Information:

Specimen Type	Temperature	Time
Serum	Refrigerated (preferred)	28 days
	Ambient	7 days
	Frozen	28 days

Cautions:

Quantitation of IgD, IgE, free kappa, and free lambda monoclonal proteins cannot be performed by this assay. Free light chain M-proteins should be quantified using FLCs / Immunoglobulin Free Light Chains, Serum. IgD and IgE should be quantified using IGD / Immunoglobulin D (IgD), Serum; or IGE / Immunoglobulin E (IgE), Serum.

CPT Code:

0077U

82784 x 3

Day(s) Performed: Monday through Friday, Sunday **Report Available:** 2 to 4 days

Questions

Contact Bonnie Meyers, Laboratory Resource Coordinator at 800-533-1710.