



## Monoclonal Protein Study, Quantitative, Serum

**Test ID:** QMPSS

**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
IGM	Immunoglobulin M (IgM), S	Yes (Order IMMIG or IGM)	Yes
IGG	Immunoglobulin G (IgG), S	Yes (Order IMMIG or IGG)	Yes
TMAB	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

TMAB: 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:**

**Container/Tube:** Sarstedt Aliquot Tube, 5 mL (T914)  
**Preferred:** Serum gel  
**Acceptable:** Red top

**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 immunoglobulin (Ig) D, IgE, free kappa and free lambda monoclonal proteins cannot be performed by this assay. Free light chain M-proteins should be quantified using test code FLCS / Immunoglobulin Free light Chains, Serum. IgD and IgE should be quantified using test code IgD / Immunoglobulin D (IgD), Serum or IgE / Immunoglobulin E (IgE), Serum.

**CPT Code:**

83789

82784 x 3

**Day(s) Performed:** Monday through Friday

**Report Available:** 2 to 4 days

**Questions**

Contact Amy Ennis, Laboratory Resource Coordinator at 800-533-1710.