

## Understanding Your Lab Results

Multiple myeloma is a cancer of the blood—and the results of blood and other lab tests are important for diagnosing and monitoring multiple myeloma.

### What are some common lab tests?

Below is a list of lab tests that are commonly used to keep an eye on multiple myeloma. Use the chart to help you better understand your results. Remember that “normal” ranges may vary slightly from lab to lab. Always rely on your doctor for a full explanation of what your results may mean.

LABORATORY ASSESSMENT	NORMAL RANGE <sup>a</sup>
<b>SERUM PROTEIN ELECTROPHORESIS</b>	
Protein	6-8 g/dL
Albumin	3.3-5.7 g/dL
α <sub>1</sub> -Globulin	0.1-0.4 g/dL
α <sub>2</sub> -Globulin	0.3-0.9 g/dL
β <sub>2</sub> -Globulin	0.7-1.5 g/dL
γ-Globulin	0.5-1.4 g/dL
<b>IMMUNOGLOBULIN, SERUM</b>	
IgA	61-356 mg/dL
IgG	767-1590 mg/dL
IgM	37-286 mg/dL
<b>CHEMISTRY PROFILE</b>	
Blood urea nitrogen (BUN)	7-20 mg/dL
Creatinine	0.6-1.3 mg/dL
Calcium	9-10.5 mg/dL
Creatinine clearance	Males: 97-137 mL/min Females: 88-128 mL/min
Glucose, fasting	70-100 mg/dL
Lactate dehydrogenase (LDH)	105-333 IU/L
Estimated glomerular filtration rate (eGFR)	90-120 mL/min/1.73 m <sup>2</sup>
<b>SERUM-FREE LIGHT CHAINS</b>	
Free kappa	3.3-19.4 mg/L
Free lambda	5.71-26.3 mg/L
Kappa/lambda ratio	0.26-1.65
β <sub>2</sub> -Microglobulin (β <sub>2</sub> M)	0.70-1.80 mg/L

<sup>a</sup>Lab values are ranges based on individual labs; values may vary slightly from lab to lab.

LABORATORY ASSESSMENT	NORMAL RANGE <sup>a</sup>
<b>COMPLETE BLOOD COUNT (CBC) WITH DIFFERENTIAL</b>	
White blood cell count (WBC)	3.5-10.5 x 10 <sup>9</sup> /L
Red blood cell count (RBC)	Males: 4.32-5.72 x 10 <sup>12</sup> /L Females: 3.90-5.03 x 10 <sup>12</sup> /L
Hemoglobin (hgb)	Males: 13.5-17.5 g/dL (135-175 g/L) Females: 12.0-15.5 g/dL (120-155 g/L)
Hematocrit (HCT)	Males: 38.8%-50.0% Females: 34.9%-44.5%
Mean corpuscular volume (MCV)	79.0-101.0 fL
Mean corpuscular hemoglobin (MCH)	25.0-35.0 pg
Mean corpuscular hemoglobin concentration (MCHC)	31.0-37.0 g/dL
Red blood cell distribution width (RDW)	11.0%-16.0%
Platelets	150-450 x 10 <sup>9</sup> /L
Lymphocytes	24%-44%
Monocytes	1.0%-10.0%
Absolute neutrophil count (ANC)	1.7-7.0 x 10 <sup>9</sup> /L
<b>URINE PROTEIN ELECTROPHORESIS</b>	
Protein	<167 mg/24 hours
Albumin	<5 mg/dL
α <sub>1</sub> -Globulin	0%
α <sub>2</sub> -Globulin	0%
β-Globulin	0%
γ-Globulin	0%

<sup>a</sup>Lab values are ranges based on individual labs; values may vary slightly from lab to lab.

Always discuss your test results with your healthcare team and make sure to ask questions to fully understand what they mean.

Visit [MyelomaCentral.com](https://www.MyelomaCentral.com) for more information about multiple myeloma and how your health is monitored.