

**Biomarker Report**

**Patient Name:** Jane Doe (Fictitious)  
**Date of Birth:** 02/15/1985 (Fictitious)  
**Date of Report:** 02/24/2025 (Fictitious)  
**Sample ID:** JD-CP-0040

**1. Comprehensive Biomarker Panel**

#	Biomarker	Result	Reference Range	Note
1	Red Blood Cell (RBC) Count	4.4 x10 <sup>6</sup> /μL	4.0–5.5 x10 <sup>6</sup> /μL	Normal
2	Hemoglobin (HGB)	13.8 g/dL	12.0–15.5 g/dL	Normal
3	Hematocrit (HCT)	41 %	36–46 %	Normal
4	Mean Corpuscular Volume (MCV)	90 fL	80–100 fL	Normal
5	Mean Corpuscular Hemoglobin (MCH)	30 pg	27–33 pg	Normal
6	Mean Corpuscular Hemoglobin Conc. (MCHC)	34 g/dL	32–36 g/dL	Normal
7	Red Cell Distribution Width (RDW)	13 %	11–15 %	Normal
8	White Blood Cell (WBC) Count	7.0 x10 <sup>3</sup> /μL	4.0–11.0 x10 <sup>3</sup> /μL	Normal
9	Neutrophils	60 %	40–70 %	Normal
10	Lymphocytes	30 %	20–40 %	Normal
11	Monocytes	7 %	2–10 %	Normal
12	Eosinophils	2 %	1–5 %	Normal
13	Basophils	1 %	0–2 %	Normal
14	Platelet Count	220 x10 <sup>3</sup> /μL	150–400 x10 <sup>3</sup> /μL	Normal
15	Mean Platelet Volume (MPV)	9 fL	7.5–11.5 fL	Normal
16	Fasting Glucose	90 mg/dL	70–99 mg/dL	Normal
17	Hemoglobin A1c	5.3 %	4.0–5.6 %	Normal
18	Blood Urea Nitrogen (BUN)	14 mg/dL	7–20 mg/dL	Normal
19	Creatinine	0.9 mg/dL	0.6–1.2 mg/dL	Normal

#	Biomarker	Result	Reference Range	Note
20	Estimated GFR (eGFR)	95 mL/min/1.73m <sup>2</sup>	>90 mL/min/1.73m <sup>2</sup>	Normal
21	Sodium (Na)	140 mmol/L	135–145 mmol/L	Normal
22	Potassium (K)	4.3 mmol/L	3.5–5.1 mmol/L	Normal
23	Chloride (Cl)	101 mmol/L	98–107 mmol/L	Normal
24	Bicarbonate (HCO <sub>3</sub> ) / CO <sub>2</sub>	26 mmol/L	23–29 mmol/L	Normal
25	Calcium (Ca)	9.5 mg/dL	8.5–10.5 mg/dL	Normal
26	Phosphorus (P)	3.5 mg/dL	2.5–4.5 mg/dL	Normal
27	Magnesium (Mg)	1.9 mg/dL	1.7–2.2 mg/dL	Normal
28	Total Protein	7.3 g/dL	6.0–8.3 g/dL	Normal
29	Albumin	4.5 g/dL	3.4–5.0 g/dL	Normal
30	Total Bilirubin	0.8 mg/dL	0.3–1.2 mg/dL	Normal
31	Aspartate Aminotransferase (AST)	25 U/L	10–35 U/L	Normal
32	Alanine Aminotransferase (ALT)	30 U/L	7–35 U/L	Normal
33	Alkaline Phosphatase (ALP)	80 U/L	40–120 U/L	Normal
34	Gamma-Glutamyl Transferase (GGT)	22 U/L	9–48 U/L	Normal
35	Lactate Dehydrogenase (LDH)	170 U/L	140–280 U/L	Normal
36	Total Cholesterol	250 mg/dL	<200 mg/dL	<b>High</b>
37	Low-Density Lipoprotein (LDL)	160 mg/dL	<100 mg/dL	Elevated
38	High-Density Lipoprotein (HDL)	45 mg/dL	>50 mg/dL (female)	Slightly low
39	Triglycerides	180 mg/dL	<150 mg/dL	Mildly elevated
40	C-Reactive Protein (CRP)	3 mg/L	<3 mg/L	Upper limit of normal

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