



118 Unique Biomarkers in LabSmarts

Biomarkers are listed under the analysis sections where their bar graphs appear. Sections are listed in the order they appear in the analysis report.

RBC Analysis

1. RBC*
2. HGB*
3. HCT*
4. MCV*
5. MCH*
6. MCHC*
7. RDW*
8. CRC – corrected reticulocyte count
9. RPI – reticulocyte production index

Immune System Analysis

15. WBC*
16. Neutrophils %*
17. Lymphocytes %*
18. Monocytes %*
19. Eosinophils %*
20. Basophils %*
21. Neutrophils Absolute*
22. Lymphocytes Absolute*
23. Monocytes Absolute*
24. Eosinophils Absolute*
25. Basophils Absolute*
26. NLR – Neutrophils-to-Lymphocyte Ratio*

Bar graphs for the following are also shown in this section as they relate to the immune system, but they are counted in their main sections below.

- Globulin
- Alkaline Phosphatase

Iron Analysis

10. Iron*
11. TIBC
12. % Saturation
13. Ferritin
14. Transferrin

Bar graphs for these biomarkers below appear in this section but are counted in the nutrients analysis section.

- Ceruloplasmin
- Copper, RBC
- Copper, serum
- Free Copper (%)

Coagulation Analysis

27. Platelets*
28. MPV*
29. D-Dimer*
30. Fibrinogen

Glucose Analysis

31. Glucose*
32. HbA1c
33. Insulin
34. C-peptide

Kidney Analysis

35. BUN*
36. Creatinine*
37. eGFR*
38. BUN/Creatinine Ratio*
39. Uric Acid

Nutrients Analysis

40. Calcium (corrected for low albumin) *
41. Ceruloplasmin*
42. Copper, RBC
43. Copper, serum*
44. Free Copper (%)
45. Cu/Zn Ratio
46. Phosphorus
47. Magnesium, RBC
48. Magnesium, serum
49. Vitamin B12
50. Folate, RBC
51. Folate, serum
52. Vitamin D (25-OH)
53. Vitamin D 1,25 (OH)₂
54. Zinc, RBC
55. Zinc, serum*

Liver / Biliary Analysis

66. Bile Acids
67. Bilirubin, Total*
68. Bilirubin, Direct
69. Bilirubin, Indirect
70. Alkaline Phosphatase*
71. AST (SGOT) *
72. ALT (SGPT) *
73. GGT
74. Lactate Dehydrogenase (LDH, LD)*

Inflammation / Oxidative Stress Analysis

82. Homocysteine
83. hs-CRP*
84. Sedimentation Rate (ESR)

Bar graphs for the following biomarkers are also shown in this section as they can be an indication of inflammation, but they are counted in other sections.

- Albumin
- Bilirubin, Total
- Ceruloplasmin
- Ferritin
- Fibrinogen
- GGT
- HDL
- TIBC
- Transferrin
- Uric Acid

Electrolytes Analysis

56. Sodium*
57. Potassium*
58. Chloride*
59. Carbon Dioxide*
60. Anion Gap w/o K*
61. Anion Gap w/ K*

Proteins Analysis

62. Protein, Total*
63. Albumin*
64. Globulin*
65. Albumin / Globulin Ratio*

Lipids Analysis

75. Cholesterol, Total
76. HDL Cholesterol
77. Triglycerides
78. LDL Cholesterol
79. Cholesterol / HDL Ratio
80. Triglycerides / HDL Ratio
81. Lipoprotein (a)

Thyroid Analysis

- 85. TSH*
- 86. T4, Total
- 87. T4, Free
- 88. T3, Total
- 89. T3, Free
- 90. Reverse T3
- 91. TPO Antibodies
- 92. Tg Antibodies
- 93. TBG
- 94. T3 Uptake
- 95. FTI

Hormones Analysis

- 96. Cortisol, AM*
- 97. Cortisol, PM
- 98. DHEA-S*
- 99. DHT
- 100. Estradiol (E2)*
- 101. Estriol (E3)
- 102. Estrogens, Total*
- 103. Estrone (E1)*
- 104. FSH*
- 105. hCG
- 106. LH*
- 107. Pregnenolone*
- 108. Progesterone*
- 109. 17-OHP*
- 110. Prolactin*
- 111. Prolactin, Lactating
- 112. SHBG*
- 113. Bioavailable Testosterone
- 114. Bioavailable Testosterone %
- 115. Free Testosterone, Calculated*
- 116. Free Testosterone, Direct*
- 117. Total Testosterone*
- 118. Total Testosterone, LC/MS*

*** Biomarkers with pediatric reference ranges (65 of 118).**