

Report Information

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Patient Information

Sex	Female	Age	46 years
Height	147 cm	Weight	62 kg
Testing Time	2026-03-05 12:37		

Key Health Metrics

Physiology Systems 71 / ₁₀₀ Stable	Nutritional Status 72 / ₁₀₀ Stable
Functional Capacity 57 / ₁₀₀ Compensating	Risk Trends 20 / ₁₀₀ Critical

Executive Summary

This comprehensive health analysis report presents a detailed assessment of physiological systems based on biomarker analysis. The overall health score of **61/100** indicates **Compensating** health status. This report evaluates multiple body systems including cardiovascular, metabolic, immune, and organ function to provide actionable health insights.

Important Notice: This report is for informational purposes only and should not be used as a substitute for professional medical advice, diagnosis, or treatment. Always consult with qualified healthcare professionals regarding any health concerns or before making any decisions related to your health or treatment.

Overall Health Assessment

Metric	Score	Details
Overall Health Score	61/100	Compensating
Physiology Systems	71/100	
Nutritional Status	72/100	
Functional Capacity	57/100	
Risk Trends	20/100	23 severe abnormalityies

Understanding Your Scores

Overall Health Score: Comprehensive assessment combining all physiological systems, nutritional status, functional capacity, and risk factors. This score provides a holistic view of your current health status.

Physiology Systems: Evaluates the performance of major body systems including cardiovascular, respiratory, digestive, nervous, immune, and organ function. Reflects how well your body systems are working together.

Nutritional Status: Assesses vitamin, mineral, and amino acid levels. Indicates whether your body has adequate nutrients for optimal function and identifies potential deficiencies or imbalances.

Functional Capacity: Measures energy production, oxygen utilization, and metabolic reserve. Shows how efficiently your body converts nutrients into energy and handles physical demands.

Risk Trends: Analyzes patterns of abnormal biomarkers to identify potential health risks. Currently showing 23 severe abnormalityies. Lower scores indicate higher risk levels requiring attention.

System Health Overview

■ Excellent (85-100) ■ Stable (70-84) ■ Compensating (50-69) ■ Strained (40-49) ■ Critical (<40)

Cardiovascular System 70/100	Cerebrovascular System 67/100	Respiratory System 70/100	Digestive System 75/100
Liver Hepatobiliary System 70/100	Pancreatic Glycemic System 46/100	Renal Urinary System 85/100	Nervous System 69/100
Endocrine System 47/100	Immune Lymphatic System 65/100	Musculoskeletal System 51/100	Bone Metabolism Density 65/100
Reproductive System 54/100	Breast Health System 57/100	Skin Connective Tissue 74/100	Sensory Eye System 77/100
Detoxification Toxic Load 59/100	Immune Allergy System 76/100	Gut Microbiome 78/100	Integumentary System 70/100
Metabolic Balance 57/100	Collagen System Overview 81/100		

System Functions

- Cardiovascular System:** Pumps blood and delivers oxygen/nutrients throughout the body
- Cerebrovascular System:** Supplies blood and oxygen to the brain for cognitive function
- Respiratory System:** Exchanges oxygen and carbon dioxide for cellular energy
- Digestive System:** Breaks down food and absorbs nutrients for body fuel
- Liver Hepatobiliary System:** Detoxifies blood, produces bile, and metabolizes nutrients
- Pancreatic Glycemic System:** Regulates blood sugar and produces digestive enzymes
- Renal Urinary System:** Filters waste from blood and maintains fluid balance
- Nervous System:** Controls body functions and processes sensory information
- Endocrine System:** Produces hormones that regulate metabolism and growth
- Immune Lymphatic System:** Defends against infections and removes cellular waste
- Musculoskeletal System:** Provides structure, support, and enables movement
- Bone Metabolism Density:** Maintains bone strength and mineral balance
- Reproductive System:** Supports reproductive health and hormone production
- Breast Health System:** Monitors breast tissue health and hormone balance
- Skin Connective Tissue:** Protects body and maintains structural integrity
- Sensory Eye System:** Processes visual information and maintains eye health
- Detoxification Toxic Load:** Eliminates environmental toxins and heavy metals

Immune Allergy System: Manages allergic responses and immune sensitivity

Gut Microbiome: Maintains digestive health and immune function balance

Integumentary System: Protects body surface and regulates temperature

Metabolic Balance: Regulates energy production and nutrient utilization

Collagen System Overview: Maintains overall health and function

Sujiva AI Analysis

Clinical Interpretation

Overall compensating health with multiple localized strain patterns; the most pronounced dysfunctions are in endocrine and pancreatic–glycemic systems with reduced functional capacity and compromised oxygen/energy status. Nutritional shortfalls and elevated toxic load are accumulating and likely amplifying systemic strain.

Key Findings

- Endocrine system: Severe strain with elevated hormonal load and reduced pituitary/parathyroid capacity, indicating disrupted endocrine balance.
- Pancreatic/glycemic system: Severe strain with marked hyperinsulinemia and high triglyceride load, reflecting significant metabolic stress.
- Functional capacity: Reduced energy status, compromised oxygen delivery and markedly reduced muscle tissue capacity.
- Cardiovascular/respiratory/cerebrovascular: Elevated vascular resistance and reduced vascular elasticity plus severely reduced tidal volume and low brain tissue blood supply — a pattern of compromised perfusion and oxygenation.
- Nutritional/toxic burden: Multiple vitamin and mineral deficiencies alongside elevated heavy metals and pesticide residues, impairing absorption and repair capacity.

Root Cause Cascades

Cascade 1 (Confidence: High)

1. Primary endocrine hyperactivity (elevated FT4, thyroglobulin, growth hormone markers)
2. Suppressed pituitary/parathyroid signaling and disrupted calcium homeostasis
3. Reduced osteocalcin and impaired bone/cartilage healing capacity with increased calcium loss
4. Elevated bone calcification and bone remodeling strain with declining structural repair capacity

Cascade 2 (Confidence: High)

1. Insulin axis dysfunction with hyperinsulinemia and high triglyceride load
2. Impaired fat metabolism and hepatic lipid accumulation with reduced liver energy production
3. Lowered cellular energy availability and reduced muscle tissue mass
4. Declining functional reserve and progressive reduction in systemic energy and metabolic capacity

Cascade 3 (Confidence: Medium)

1. Elevated toxic load (pesticides, antimony, lead, arsenic) and electromagnetic burden
2. Compromised gastrointestinal immune and absorption capacity
3. Multiple micronutrient deficiencies and amino acid imbalances reducing repair and detox capacity
4. Accumulating systemic strain that amplifies endocrine, metabolic and immune dysfunction

Future Risk Assessment

Risk Level: Elevated | **Timeframe:** Medium-term (1-2 years)

- Progressive metabolic and hepatic strain driven by persistent hyperinsulinemia and high triglyceride load, reducing systemic energy reserve.
- Accumulating endocrine-related disruption of mineral and bone metabolism leading to declining bone repair capacity and altered calcium handling.
- Worsening perfusion/oxygen delivery to brain and tissues due to elevated vascular resistance combined with reduced respiratory volume, contributing to declining cognitive and nervous system function.

Nutritional Status Analysis

Overall Nutritional Score: **72/100**

Vitamins

Marker	Status	Normal Range	Actual Value
Vitamin B1	LOW	2.124 - 4.192	0.991
Vitamin B3	LOW	14.477 - 21.348	11.562
Vitamin C	LOW	4.543 - 5.023	3.564
Vitamin K	LOW	0.717 - 1.486	0.446

- **Vitamin C:** Powerful antioxidant supporting immune function, collagen production, wound healing, and iron absorption.
- **Vitamin K:** Critical for blood clotting and bone metabolism. Helps prevent excessive bleeding and supports bone density.

Marker	Status	Normal Range	Actual Value
Vitamin A	MILD LOW	0.346 - 0.401	0.323
Vitamin B6	MILD LOW	0.824 - 1.942	0.747
Vitamin B12	MILD LOW	6.428 - 21.396	3.676
Vitamin D3	MILD LOW	5.327 - 7.109	4.318
Vitamin E	MILD LOW	4.826 - 6.013	4.331

- **Vitamin A:** Essential for vision, immune function, skin health, and cell growth. Supports night vision and protects against infections.
- **Vitamin E:** Antioxidant protecting cells from damage, supports immune function, skin health, and blood vessel health.

Marker	Status	Normal Range	Actual Value
Vitamin B2	NORMAL	1.549 - 2.213	1.782

About Vitamins: Essential organic compounds that your body needs in small amounts for various metabolic processes. Vitamins support immune function, energy production, bone health, blood clotting, and protect cells from damage. They must be obtained through diet as the body cannot produce most vitamins. Deficiencies can lead to fatigue, weakened immunity, poor wound healing, and various health complications.

Minerals

Marker	Status	Normal Range	Actual Value
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Calcium	LOW	1.219 - 3.021	0.350
Iron	LOW	1.151 - 1.847	0.309
Zinc	LOW	1.143 - 1.989	0.813
Potassium	LOW	0.689 - 0.987	0.278
Cobalt	LOW	2.326 - 5.531	0.635
Tin	SEVERELY LOW	1.023 - 7.627	0.175
Silicon	LOW	1.425 - 5.872	0.941

- **Calcium:** Builds and maintains strong bones and teeth. Essential for muscle contraction, nerve signaling, and blood clotting.
- **Iron:** Essential for hemoglobin production and oxygen transport. Prevents anemia and supports energy levels.
- **Zinc:** Supports immune function, wound healing, DNA synthesis, and cell division. Important for taste and smell.
- **Potassium:** Regulates fluid balance, muscle contractions, and nerve signals. Helps maintain healthy blood pressure.

Marker	Status	Normal Range	Actual Value
Selenium	MILD LOW	0.847 - 2.045	0.690
Iodine	MILD LOW	1.421 - 5.490	1.195
Fluorine	MILD LOW	1.954 - 4.543	1.476

- **Selenium:** Powerful antioxidant supporting thyroid function, immune health, and protecting cells from damage.
- **Iodine:** Essential for thyroid hormone production, regulating metabolism, growth, and development.

Marker	Status	Normal Range	Actual Value
Phosphorus	NORMAL	1.195 - 2.134	1.495
Magnesium	NORMAL	0.568 - 0.992	0.673
Copper	NORMAL	0.474 - 0.749	0.747
Manganese	NORMAL	0.497 - 0.879	0.876
Nickel	NORMAL	2.462 - 5.753	2.752
Molybdenum	NORMAL	0.938 - 1.712	1.619
Vanadium	NORMAL	1.019 - 3.721	2.490
Strontium	NORMAL	1.142 - 5.862	3.294
Boron	NORMAL	1.124 - 3.453	3.336

- **Phosphorus:** Works with calcium for bone health. Essential for energy production, cell growth, and kidney function.
- **Magnesium:** Supports muscle and nerve function, blood sugar control, blood pressure regulation, and energy production.
- **Copper:** Helps form red blood cells, maintains nerve cells and immune system. Supports iron absorption.

- **Manganese:** Supports bone formation, blood clotting, and reduces inflammation. Helps metabolize carbohydrates and amino acids.
- **Molybdenum:** Helps break down proteins and other substances. Essential for processing sulfites and preventing toxin buildup.

About Minerals: Inorganic elements crucial for building strong bones and teeth, controlling body fluids, converting food into energy, and supporting nervous system function. Major minerals like calcium, magnesium, and potassium are needed in larger amounts, while trace minerals like iron, zinc, and selenium are needed in smaller quantities but are equally vital. Imbalances can affect heart rhythm, muscle function, bone density, and metabolism.

Amino Acids

Marker	Status	Normal Range	Actual Value
Lysine	HIGH	0.253 - 0.659	1.058
Phenylalanine	MILD HIGH	0.731 - 1.307	1.360
Threonine	MILD HIGH	0.422 - 0.817	0.885
Isoleucine	MILD HIGH	1.831 - 3.248	3.450
Leucine	HIGH	2.073 - 4.579	7.032
Valine	MILD HIGH	2.012 - 4.892	5.498
Histidine	MILD HIGH	2.903 - 4.012	5.498
Arginine	HIGH	0.710 - 1.209	1.873

- **Lysine:** Essential for protein synthesis, calcium absorption, and collagen formation. Supports immune function and hormone production.
- **Phenylalanine:** Produces neurotransmitters affecting mood, memory, and learning. Converts to tyrosine for brain function.
- **Threonine:** Supports immune function, fat metabolism, and collagen production. Important for skin and connective tissue.
- **Isoleucine:** Supports muscle metabolism, immune function, and hemoglobin production. Helps regulate energy and blood sugar.
- **Leucine:** Essential for protein synthesis, muscle repair, and blood sugar regulation. Promotes wound healing.
- **Valine:** Promotes muscle growth and tissue repair. Supports energy production and mental focus.
- **Histidine:** Produces histamine for immune response. Supports tissue repair, growth, and protects nerve cells.
- **Arginine:** Supports wound healing, immune function, and hormone release. Helps remove ammonia from body.

Marker	Status	Normal Range	Actual Value
Tryptophan	NORMAL	2.374 - 3.709	2.572
Methionine	NORMAL	0.432 - 0.826	0.624

- **Tryptophan:** Produces serotonin affecting mood, sleep, and appetite. Essential for growth and nitrogen balance.
- **Methionine:** Supports tissue growth and repair, detoxification, and absorption of minerals. Produces important molecules.

About Amino Acids: The building blocks of proteins, essential for building and repairing tissues, producing enzymes and hormones, and supporting immune function. There are 20 amino acids, with 9 being essential (must come from diet) and 11 non-essential (body can produce). They play critical roles in muscle growth, neurotransmitter production, wound healing, and maintaining healthy skin, hair, and nails. Deficiencies can impair muscle recovery, weaken immunity, and affect mood and cognitive function.

Functional Capacity Assessment

Overall Functional Capacity Score: **57/100**

Energy Production - Score: 50/100 | Status: Reduced

Marker	Status	Normal Range	Actual Value
Hypoxia	NORMAL	133.642 - 141.476	140.514
Response Ability	LOW	59.786 - 65.424	55.252
Mental Power	LOW	58.715 - 63.213	55.612

- **Hypoxia:** Measures tissue oxygen deprivation. Low levels indicate insufficient oxygen reaching cells, affecting energy production and organ function.
- **Response Ability:** Measures body's capacity to respond to stress and physical demands. Indicates overall physiological resilience and adaptability.
- **Mental Power:** Cognitive function and mental energy capacity. Reflects brain's ability to process information and maintain focus under stress.

Oxygen Utilization - Score: 60/100 | Status: Compromised

Marker	Status	Normal Range	Actual Value
Arterial Oxygen Content PaCO2	HIGH	17.903 - 21.012	23.682
Hypoxia	NORMAL	133.642 - 141.476	140.514
Cerebrovascular blood oxygen saturation(Sa)	NORMAL	0.710 - 1.109	0.799

- **Arterial Oxygen Content PaCO2:** Carbon dioxide pressure in arterial blood. Indicates breathing efficiency and acid-base balance. Abnormal levels affect oxygen delivery.
- **Hypoxia:** Measures tissue oxygen deprivation. Low levels indicate insufficient oxygen reaching cells, affecting energy production and organ function.
- **Cerebrovascular blood oxygen saturation(Sa):** Oxygen saturation in brain blood vessels. Critical for brain function, cognitive performance, and preventing neurological damage.

Metabolic Reserve - Score: 65/100 | Status: Moderate

Marker	Status	Normal Range	Actual Value
Energy Production Function	LOW	0.713 - 0.992	0.465
Insulin	NORMAL	2.845 - 4.017	3.858
PH	LOW	7.350 - 7.450	7.242
Water Shortage	LOW	33.967 - 37.642	29.635

- **Energy Production Function:** Overall efficiency of converting nutrients into usable energy. Indicates metabolic health and cellular energy generation capacity.
- **Insulin:** Hormone regulating blood sugar. Controls glucose uptake by cells and fat storage. Low levels indicate pancreatic dysfunction.
- **PH:** Blood acidity/alkalinity balance. Critical for enzyme function, oxygen delivery, and cellular metabolism. Normal range is tightly regulated.
- **Water Shortage:** Indicates hydration status and fluid balance. Dehydration affects blood volume, nutrient transport, and cellular function.



Cardiovascular System

Score: **70/100** | Status: **Mild Strain** | Abnormal Markers: **12**

Marker	Status	Normal Range	Actual Value
Blood Viscosity	MILD HIGH	48.264 - 65.371	67.971
Blood Fat	MILD HIGH	0.481 - 1.043	1.645
Vascular Resistance	HIGH	0.327 - 0.937	1.821
Vascular Elasticity	LOW	1.672 - 1.978	1.424
Myocardial Blood Demand	NORMAL	0.192 - 0.412	0.245
Myocardial Blood Perfusion Volume	NORMAL	4.832 - 5.147	5.089
Myocardial Oxygen Consumption	NORMAL	3.321 - 4.244	3.740
Stroke Volume	NORMAL	1.338 - 1.672	1.531
Left Ventricular Ejection Impedance	NORMAL	0.669 - 1.544	1.417
Left Ventricular Effective Pump Power	NORMAL	1.554 - 1.988	1.917
Coronary Artery Elasticity	LOW	1.553 - 2.187	1.055
Coronary Perfusion Pressure	NORMAL	11.719 - 18.418	11.892
Stroke index	MILD HIGH	60.735 - 65.396	66.419
Stroke volume(SV)	LOW	63.012 - 67.892	54.970
Heart peripheral resistance(TRR)	HIGH	0.983 - 1.265	2.024
Blood vessel elasticity(AC)	LOW	1.403 - 1.671	0.644
Pulse wave coefficient K	SEVERELY LOW	0.316 - 0.401	0.149
Total cholesterol(TC)	NORMAL	1.833 - 2.979	2.970
Triglyceride(TG)	NORMAL	1.116 - 2.101	2.079
High-density lipoprotein(HDL-C)	NORMAL	1.449 - 2.246	1.946
Low-density lipoprotein(LDL-C)	NORMAL	0.831 - 1.588	0.881
Neutral fat(MB)	HIGH	0.726 - 1.281	5.101
Circulating immune complex(CIC)	HIGH	13.012 - 17.291	20.578

- **Blood Viscosity:** Thickness of blood affecting flow through vessels. High viscosity increases heart workload and clotting risk.
- **Blood Fat:** Lipid levels in blood including triglycerides. Affects cardiovascular health and energy storage.



- **Vascular Resistance:** Opposition to blood flow in vessels. High resistance increases blood pressure and heart strain.
- **Vascular Elasticity:** Flexibility of blood vessel walls. Reduced elasticity indicates aging vessels and hypertension risk.
- **Myocardial Blood Demand:** Heart muscle oxygen and nutrient requirements. Indicates cardiac workload and efficiency.
- **Myocardial Blood Perfusion Volume:** Blood flow to heart muscle. Critical for heart function and preventing ischemia.
- **Myocardial Oxygen Consumption:** Oxygen used by heart muscle. Reflects cardiac workload and metabolic demand.
- **Stroke Volume:** Blood pumped per heartbeat. Key indicator of heart pumping efficiency and cardiac output.
- **Left Ventricular Ejection Impedance:** Resistance to blood ejection from left ventricle. Affects cardiac output and efficiency.
- **Left Ventricular Effective Pump Power:** Power generated by left ventricle to pump blood. Indicates heart strength and function.
- **Coronary Artery Elasticity:** Flexibility of heart arteries. Affects blood flow to heart muscle and heart attack risk.
- **Coronary Perfusion Pressure:** Blood pressure in coronary arteries. Ensures adequate heart muscle blood supply.
- **Stroke index:** Blood pumped per heartbeat relative to body size. Indicates cardiac efficiency.
- **Stroke volume(SV):** Blood volume ejected per heartbeat. Key cardiac output measure.
- **Heart peripheral resistance(TRR):** Resistance to blood flow from heart. Affects blood pressure.
- **Blood vessel elasticity(AC):** Vessel flexibility and compliance. Affects blood pressure regulation.
- **Pulse wave coefficient K:** Arterial stiffness indicator. Predicts cardiovascular risk.
- **Total cholesterol(TC):** Total blood cholesterol. High levels increase heart disease risk.
- **Triglyceride(TG):** Blood fat storage form. High levels increase heart disease risk.
- **High-density lipoprotein(HDL-C):** Good cholesterol. Removes cholesterol from arteries.
- **Low-density lipoprotein(LDL-C):** Bad cholesterol. Deposits cholesterol in arteries.
- **Neutral fat(MB):** Neutral lipids in blood. Affects cardiovascular health.
- **Circulating immune complex(CIC):** Antibody-antigen complexes. Indicates immune activity and inflammation.

Cerebrovascular System

Score: **67/100** | Status: **Moderate Strain** | Abnormal Markers: **4**

Marker	Status	Normal Range	Actual Value
Cerebral Blood Vessel Elasticity	MILD LOW	0.708 - 1.942	0.631
Brain Tissue Blood Supply Status	NORMAL	6.138 - 21.396	13.011
Status of Brain Tissue Blood Supply	SEVERELY LOW	143.37 - 210.81	87.20
Cerebral Arteriosclerosis	SEVERELY HIGH	0.103 - 0.642	1.081
Cerebrovascular blood oxygen saturation(Sa)	NORMAL	0.710 - 1.109	0.799
Cerebrovascular blood oxygen volume(CaCO2)	NORMAL	7.880 - 10.090	8.123
Cerebrovascular blood oxygen pressure(PaO2)	MILD LOW	5.017 - 5.597	4.882

- **Cerebral Blood Vessel Elasticity:** Flexibility of brain blood vessels. Affects stroke risk and cognitive function.
- **Brain Tissue Blood Supply Status:** Adequacy of blood flow to brain. Critical for cognitive function and preventing stroke.
- **Status of Brain Tissue Blood Supply:** Adequacy of blood flow to brain. Critical for cognitive function.
- **Cerebral Arteriosclerosis:** Hardening of brain arteries. Increases stroke risk and cognitive decline.
- **Cerebrovascular blood oxygen saturation(Sa):** Brain blood vessel oxygen levels. Critical for cognitive function.
- **Cerebrovascular blood oxygen volume(CaCO2):** Oxygen content in brain blood vessels. Critical for brain function.
- **Cerebrovascular blood oxygen pressure(PaO2):** Oxygen pressure in brain arteries. Indicates brain oxygenation.

Respiratory System

Score: **70/100** | Status: **Mild Strain** | Abnormal Markers: **6**

Marker	Status	Normal Range	Actual Value
Vital Capacity VC	NORMAL	3348 - 3529	3524
Total Lung Capacity TLC	NORMAL	4301 - 4782	4440
Airway Resistance RAM	HIGH	1.374 - 1.709	1.761
Arterial Oxygen Content PaCO2	HIGH	17.903 - 21.012	23.682
tidal volume	SEVERELY LOW	0.59 - 0.76	0.31
breathing rate	MILD LOW	18.50 - 23.40	17.12
Ventilation	MILD HIGH	11.5 - 13.8	14.58
expiratory volume	HIGH	1.00 - 2.05	3.94
Inspiratory volume	NORMAL	1.4 - 2.76	2.12

- **Vital Capacity VC:** Maximum air exhaled after deep breath. Measures lung capacity and respiratory health.
- **Total Lung Capacity TLC:** Total air lungs can hold. Indicates lung size and respiratory reserve.
- **Airway Resistance RAM:** Opposition to airflow in lungs. Elevated in asthma and COPD.
- **Arterial Oxygen Content PaCO2:** Carbon dioxide in arterial blood. Indicates breathing efficiency and acid-base balance.
- **tidal volume:** Air volume per breath. Indicates lung capacity and breathing efficiency.
- **breathing rate:** Breaths per minute. Indicates respiratory health and oxygen demand.
- **Ventilation:** Total air moved per minute. Measures overall breathing efficiency.
- **expiratory volume:** Air forcefully exhaled. Indicates lung function and airway obstruction.
- **Inspiratory volume:** Air inhaled beyond normal breath. Indicates lung expansion capacity.

Digestive System

Score: **75/100** | Status: **Mild Strain** | Abnormal Markers: **8**

Marker	Status	Normal Range	Actual Value
Pepsin Secretion Coefficient	MILD LOW	59.847 - 65.234	58.665
Gastric Peristalsis Function Coefficient	MILD LOW	58.425 - 61.213	56.822
Gastric Absorption Function Coefficient	MILD LOW	34.367 - 35.642	32.537
Small Intestine Peristalsis Function Coefficient	MILD LOW	133.437 - 140.476	126.935
Small Intestine Absorption Function Coefficient	MILD LOW	3.572 - 6.483	3.485
Large intestine peristalsis function coefficient	LOW	4.572 - 6.483	2.808
Colonic absorption coefficient	MILD LOW	2.946 - 3.815	2.787
Intestinal bacteria coefficient	LOW	1.734 - 2.621	0.638
Intraluminal pressure coefficient	NORMAL	1.173 - 2.297	1.301

- **Pepsin Secretion Coefficient:** Enzyme production for protein digestion. Indicates stomach digestive capacity.
- **Gastric Peristalsis Function Coefficient:** Stomach muscle contractions for food mixing. Affects digestion and emptying.
- **Gastric Absorption Function Coefficient:** Stomach ability to absorb nutrients. Indicates digestive efficiency.
- **Small Intestine Peristalsis Function Coefficient:** Intestinal muscle contractions moving food. Essential for nutrient absorption.
- **Small Intestine Absorption Function Coefficient:** Intestinal nutrient absorption capacity. Critical for nutrition and energy.
- **Large intestine peristalsis function coefficient:** Colon muscle contractions. Moves waste for elimination.
- **Colonic absorption coefficient:** Colon water and nutrient absorption. Affects stool consistency.
- **Intestinal bacteria coefficient:** Gut microbiome balance. Affects digestion and immunity.
- **Intraluminal pressure coefficient:** Pressure inside colon. High pressure causes diverticulosis.

Liver Hepatobiliary System

Score: **70/100** | Status: **Mild Strain** | Abnormal Markers: **9**

Marker	Status	Normal Range	Actual Value
Protein Metabolism	MILD LOW	116.34 - 220.621	97.23
Energy Production Function	LOW	0.713 - 0.992	0.465
Detoxification Function	MILD LOW	0.202 - 0.991	0.099
Bile Secretion Function	MILD LOW	0.432 - 0.826	0.423
Liver Fat Content	HIGH	0.097 - 0.419	0.588
Serum Globulin (A/G)	LOW	126 - 159	109
Total Bilirubin (TBIL)	HIGH	0.232 - 0.686	0.758
Alkaline Phosphatase (ALP)	HIGH	0.082 - 0.342	0.347
Serum Total Bile Acid (TBA)	NORMAL	0.317 - 0.695	0.404
Bilirubin (DBIL)	LOW	0.218 - 0.549	0.146

- **Protein Metabolism:** Liver processing of proteins. Essential for building tissues and producing enzymes.
- **Energy Production Function:** Liver role in energy metabolism. Converts nutrients to usable energy forms.
- **Detoxification Function:** Liver ability to remove toxins. Protects body from harmful substances.
- **Bile Secretion Function:** Bile production for fat digestion. Essential for absorbing fat-soluble vitamins.
- **Liver Fat Content:** Fat accumulation in liver. Excess indicates fatty liver disease risk.
- **Serum Globulin (A/G):** Protein ratio in blood. Indicates liver function and immune status.
- **Total Bilirubin (TBIL):** Breakdown product of red blood cells. Elevated levels indicate liver or bile duct problems.
- **Alkaline Phosphatase (ALP):** Enzyme indicating liver and bone health. Elevated in bile duct obstruction.
- **Serum Total Bile Acid (TBA):** Bile acids in blood. Indicates liver function and bile flow.
- **Bilirubin (DBIL):** Direct bilirubin form. Elevated in bile duct obstruction or liver disease.

Pancreatic Glycemic System

Score: **46/100** | Status: **Severe Strain** | Abnormal Markers: **9**

Marker	Status	Normal Range	Actual Value
Insulin	NORMAL	2.845 - 4.017	3.858
Pancreatic Polypeptide (PP)	HIGH	3.210 - 6.854	6.877
Glucagon	HIGH	2.412 - 2.974	3.312
Coefficient of Insulin Secretion	HIGH	2.967 - 3.528	4.056
Blood Sugar Coefficient	NORMAL	2.163 - 7.321	3.878
Urine Sugar Coefficient	HIGH	2.204 - 2.819	2.936
Abnormal lipid metabolism coefficient	LOW	1.992 - 3.713	1.035
Brown adipose tissue abnormalities coefficient	MILD LOW	2.791 - 4.202	2.724
Hyperinsulinemia coefficient	SEVERELY HIGH	0.097 - 0.215	0.593
Nucleus of the hypothalamus abnormal coefficient	SEVERELY HIGH	0.332 - 0.626	1.146
Triglyceride content of abnormal coefficient	SEVERELY HIGH	1.341 - 1.991	5.755

- **Insulin:** Hormone regulating blood sugar. Controls glucose uptake and fat storage.
- **Pancreatic Polypeptide (PP):** Hormone regulating pancreatic secretions. Indicates pancreatic function.
- **Glucagon:** Hormone raising blood sugar. Balances insulin to maintain glucose levels.
- **Coefficient of Insulin Secretion:** Pancreatic insulin production rate. Indicates diabetes risk.
- **Blood Sugar Coefficient:** Glucose regulation efficiency. High values indicate diabetes or prediabetes.
- **Urine Sugar Coefficient:** Glucose in urine. Indicates kidney function and diabetes control.
- **Abnormal lipid metabolism coefficient:** Fat processing efficiency. Affects weight and cardiovascular health.
- **Brown adipose tissue abnormalities coefficient:** Heat-generating fat function. Affects metabolism and weight.
- **Hyperinsulinemia coefficient:** Excess insulin production. Indicates insulin resistance and diabetes risk.
- **Nucleus of the hypothalamus abnormal coefficient:** Brain appetite control center. Affects hunger and satiety.
- **Triglyceride content of abnormal coefficient:** Fat storage in blood. High levels increase heart disease risk.

Renal Urinary System

Score: **85/100** | Status: **Stable** | Abnormal Markers: **4**

Marker	Status	Normal Range	Actual Value
Urobilinogen Index	MILD HIGH	2.762 - 5.424	6.684
Uric acid Index	HIGH	1.435 - 1.987	2.783
Blood urea nitrogen(BUN) Index	HIGH	4.725 - 8.631	11.715
Proteinuria Index	HIGH	1.571 - 4.079	5.965
Ketosteroids	NORMAL	0.991 - 0.702	1
Oxindoleacetic acid	NORMAL	0.237 - 0.527	0
Oxalate	NORMAL	0.192 - 0.312	0

- **Urobilinogen Index:** Bilirubin breakdown product in urine. Indicates liver and kidney function.
- **Uric acid Index:** Waste product from purine metabolism. High levels cause gout and kidney stones.
- **Blood urea nitrogen(BUN) Index:** Waste from protein breakdown. Indicates kidney filtering function.
- **Proteinuria Index:** Protein in urine. Indicates kidney damage or disease.
- **Ketosteroids:** Steroid hormone metabolites in urine. Indicates adrenal and gonadal function.
- **Oxindoleacetic acid:** Serotonin metabolite. Indicates neurotransmitter metabolism.
- **Oxalate:** Compound in urine. High levels cause kidney stones.

Nervous System

Score: **69/100** | Status: **Moderate Strain** | Abnormal Markers: **5**

Marker	Status	Normal Range	Actual Value
Functional Status of Cranial Nerve	LOW	0.253 - 0.659	0.058
Sentiment Index	MILD HIGH	0.109 - 0.351	0.360
Memory Index(ZS)	LOW	0.442 - 0.817	0.252
Response Ability	LOW	59.786 - 65.424	55.252
Mental Power	LOW	58.715 - 63.213	55.612

- **Functional Status of Cranial Nerve:** Nerve function controlling senses and movement. Affects vision, hearing, and motor control.
- **Sentiment Index:** Emotional regulation and mood stability. Indicates mental health status.
- **Memory Index(ZS):** Cognitive function and memory capacity. Reflects brain health and aging.
- **Response Ability:** Body capacity to respond to stress. Indicates physiological resilience.
- **Mental Power:** Cognitive function and mental energy. Reflects brain health and focus.

Endocrine System

Score: 47/100 | Status: **Severe Strain** | Abnormal Markers: 14

Marker	Status	Normal Range	Actual Value
Thyroid secretion index	MILD LOW	2.954 - 5.543	2.250
Parathyroid hormone secretion index	LOW	2.845 - 4.017	1.614
Adrenal glands Index	MILD LOW	2.412 - 2.974	2.308
Pituitary secretion index	LOW	2.163 - 7.34	0.823
Pineal secretion index	MILD LOW	3.210 - 6.854	2.922
Thymus gland secretion index	LOW	2.967 - 3.528	1.799
Gland secretion index	MILD LOW	2.204 - 2.819	1.786
Free thyroxine (FT4)	SEVERELY HIGH	0.100 - 0.310	0.960
Thyroglobulin	SEVERELY HIGH	0.114 - 0.202	0.749
Anti-thyroglobulin antibodies	LOW	0.734 - 0.421	0.242
Three triiodothyronine (T3)	HIGH	0.160 - 0.300	0.750
Estradiol	MILD HIGH	0.100 - 0.370	0.458
dehydroepiandrosterone(DHEA)	HIGH	0.114 - 0.402	0.680
human growth hormone(HCH)	SEVERELY HIGH	0.134 - 0.221	0.478

- **Thyroid secretion index:** Thyroid hormone production rate. Controls metabolism and energy.
- **Parathyroid hormone secretion index:** Hormone regulating calcium levels. Affects bone and kidney health.
- **Adrenal glands Index:** Stress hormone production. Controls cortisol and adrenaline.
- **Pituitary secretion index:** Master gland hormone production. Regulates other endocrine glands.
- **Pineal secretion index:** Melatonin production. Controls sleep-wake cycles.
- **Thymus gland secretion index:** Immune system hormone production. Supports T-cell development.
- **Gland secretion index:** Overall endocrine function. Indicates hormonal balance.
- **Free thyroxine (FT4):** Active thyroid hormone. Controls metabolism, energy, and body temperature.
- **Thyroglobulin:** Protein for thyroid hormone production. Indicates thyroid function.
- **Anti-thyroglobulin antibodies:** Immune attack on thyroid. Indicates autoimmune thyroid disease.
- **Three triiodothyronine (T3):** Active thyroid hormone. More potent than T4 in regulating metabolism.
- **Estradiol:** Primary estrogen hormone. Affects reproductive health, bone density, and mood.
- **dehydroepiandrosterone(DHEA):** Precursor to sex hormones. Affects energy, mood, and aging.
- **human growth hormone(HCH):** Growth and repair hormone. Affects muscle, bone, and metabolism.

Immune Lymphatic System

Score: **65/100** | Status: **Moderate Strain** | Abnormal Markers: **9**

Marker	Status	Normal Range	Actual Value
Lymph node Index	MILD HIGH	133.437 - 140.47	140.888
Tonsil immune Index	MILD LOW	0.124 - 0.453	0.106
Bone marrow Index	LOW	0.146 - 3.218	0.080
Spleen index	MILD LOW	34.367 - 35.642	33.692
Thymus index	MILD LOW	58.425 - 61.213	56.903
Immunoglobulin index	MILD LOW	3.712 - 6.981	3.174
Respiratory immune Index	MILD LOW	3.241 - 9.814	2.651
Gastrointestinal immune Index	SEVERELY LOW	0.638 - 1.712	0.182
Mucosa immune Index	MILD LOW	4.111 - 18.741	3.664

- **Lymph node Index:** Lymphatic system function. Filters pathogens and supports immunity.
- **Tonsil immune Index:** Throat defense against infections. First line immune barrier.
- **Bone marrow Index:** Blood cell production site. Creates white blood cells for immunity.
- **Spleen index:** Blood filtration and immune cell storage. Removes old blood cells.
- **Thymus index:** T-cell maturation organ. Critical for adaptive immunity.
- **Immunoglobulin index:** Antibody production level. Indicates immune response capacity.
- **Respiratory immune Index:** Lung and airway defense. Protects against respiratory infections.
- **Gastrointestinal immune Index:** Gut immune function. Protects against food-borne pathogens.
- **Mucosa immune Index:** Mucosal barrier defense. Protects body surfaces from infection.

Musculoskeletal System

Score: **51/100** | Status: **Moderate Strain** | Abnormal Markers: **2**

Marker	Status	Normal Range	Actual Value
Skeleton	NORMAL	6.256 - 8.682	8.277
Muscle Tissue	SEVERELY LOW	6.552 - 8.268	2.502
Tooth	SEVERELY LOW	7.245 - 8.562	4.054

- **Skeleton:** Collagen in bones. Provides bone flexibility and strength.
- **Muscle Tissue:** Collagen in muscle connective tissue. Supports muscle structure.
- **Tooth:** Collagen in teeth and gums. Supports dental health.

Bone Metabolism Density

Score: **65/100** | Status: **Moderate Strain** | Abnormal Markers: **13**

Marker	Status	Normal Range	Actual Value
Osteoclast Coefficient	MILD HIGH	86.73 - 180.97	187.84
Amount of Calcium Loss	HIGH	0.209 - 0.751	0.852
Degree of Bone Hyperplasia	HIGH	0.046 - 0.167	0.933
Degree of Osteoporosis	NORMAL	0.124 - 0.453	0.396
None Mineral Density	MILD LOW	0.796 - 0.433	0.233
Bone alkaline phosphatase	MILD LOW	0.433 - 0.796	0.412
Osteocalcin	LOW	0.525 - 0.817	0.389
Status of long bone healing	NORMAL	0.713 - 0.992	0.889
Short bone cartilage healing situation	LOW	0.202 - 0.991	0.066
Epiphyseal line	MILD LOW	0.432 - 0.826	0.423
Bone Hyperplasia Coefficient	MILD HIGH	2.954 - 5.543	6.136
Degree of Cervical Calcification	SEVERELY HIGH	421 - 490	547
Degree of Lumbar Calcification	MILD HIGH	4.326 - 7.531	7.584
Osteoporosis Coefficient	HIGH	2.019 - 4.721	5.602
Rheumatism Coefficient	HIGH	4.023 - 11.627	16.324

- **Osteoclast Coefficient:** Bone breakdown cell activity. High levels indicate bone loss.
- **Amount of Calcium Loss:** Calcium leaving bones. Indicates osteoporosis risk.
- **Degree of Bone Hyperplasia:** Abnormal bone growth. Can indicate arthritis or bone disorders.
- **Degree of Osteoporosis:** Bone density loss. Increases fracture risk.
- **None Mineral Density:** Overall bone mineral content. Lower values indicate osteoporosis risk.
- **Bone alkaline phosphatase:** Enzyme indicating bone formation. High in growing or healing bones.
- **Osteocalcin:** Protein produced by bone-building cells. Indicates bone formation rate.
- **Status of long bone healing:** Repair status of arm and leg bones. Indicates fracture healing.
- **Short bone cartilage healing situation:** Repair status of wrist and ankle bones. Indicates joint health.
- **Epiphyseal line:** Growth plate status. Indicates growth potential in children.
- **Bone Hyperplasia Coefficient:** Abnormal bone growth rate. Indicates arthritis and joint problems.
- **Degree of Cervical Calcification:** Calcium deposits in neck vertebrae. Indicates arthritis and bone aging.
- **Degree of Lumbar Calcification:** Calcium deposits in lower spine. Affects mobility and causes back pain.
- **Osteoporosis Coefficient:** Bone density loss rate. Measures fracture risk and bone health.
- **Rheumatism Coefficient:** Inflammatory joint disease indicator. Affects mobility and causes pain.

Reproductive System

Score: **54/100** | Status: **Moderate Strain** | Abnormal Markers: **12**

Marker	Status	Normal Range	Actual Value
Female Hhormone	LOW	3.296 - 8.840	0.435
Gonadotropin	LOW	4.886 - 8.931	3.352
Prolactin	NORMAL	3.142 - 7.849	5.307
Progesterone	MILD LOW	6.818 - 16.743	5.566
Vaginitis coefficient	MILD HIGH	2.204 - 2.819	3.070
PID coefficient	HIGH	1.348 - 3.529	6.052
Appendagitis coefficient	MILD HIGH	2.301 - 4.782	6.795
Cervicitis coefficient	HIGH	2.845 - 4.017	6.100
Ovarian cyst coefficient	HIGH	2.012 - 4.892	9.095
Beta hormone	LOW	2.942 - 3.407	1.706
Reflect protein	LOW	4.713 - 5.345	3.235
Fibrinogen	SEVERELY LOW	2.807 - 3.294	0.716
Sedimentation rate	SEVERELY LOW	6.326 - 8.018	1.308

- **Gonadotropin:** Hormone stimulating testosterone production. Regulates reproductive function.

Breast Health System

Score: **57/100** | Status: **Moderate Strain** | Abnormal Markers: **4**

Marker	Status	Normal Range	Actual Value
Hyperplasia of mammary glands coefficient	SEVERELY HIGH	0.202 - 0.991	2.538
Acute mastitis coefficient	MILD HIGH	0.713 - 0.992	1.046
Chronic mastitis coefficient	HIGH	0.432 - 0.826	1.467
Endocrine dyscrasia coefficient	NORMAL	1.684 - 4.472	2.981
Fibroadenoma of breast coefficient	SEVERELY HIGH	0.433 - 0.796	1.909

Skin Connective Tissue

Score: **74/100** | Status: **Mild Strain** | Abnormal Markers: **8**

Marker	Status	Normal Range	Actual Value
Skin Free Radical Index	MILD HIGH	0.124 - 3.453	3.786
Skin Collagen Index	MILD LOW	4.471 - 6.079	3.379
Skin Grease Index	NORMAL	14.477 - 21.348	14.480
Skin Immunity Index	HIGH	1.035 - 3.230	5.563
Skin Moisture Index	HIGH	0.218 - 0.953	1.791
Skin Moisture Loss	HIGH	2.214 - 4.158	7.231
Skin Red Blood Trace Index	MILD HIGH	0.824 - 1.942	2.820
Skin Elasticity Index	MILD LOW	2.717 - 3.512	2.414
Skin Melanin Index	NORMAL	0.346 - 0.501	0.398
Skin Horniness Index	HIGH	0.842 - 1.858	3.150

- **Skin Free Radical Index:** Oxidative damage to skin cells. Causes aging and wrinkles.
- **Skin Collagen Index:** Structural protein maintaining skin firmness. Loss causes sagging.
- **Skin Grease Index:** Sebum production level. Affects acne and skin moisture.
- **Skin Immunity Index:** Skin defense against infections. Protects from pathogens.
- **Skin Moisture Index:** Hydration level of skin. Affects appearance and barrier function.
- **Skin Moisture Loss:** Water evaporation rate from skin. High loss causes dryness.
- **Skin Red Blood Trace Index:** Visible blood vessels in skin. Indicates rosacea or sensitivity.
- **Skin Elasticity Index:** Skin ability to stretch and return. Loss indicates aging.
- **Skin Melanin Index:** Pigment production level. Affects skin tone and sun protection.
- **Skin Horniness Index:** Dead skin cell buildup. Causes rough texture and dullness.

Sensory Eye System

Score: **77/100** | Status: **Mild Strain** | Abnormal Markers: **6**

Marker	Status	Normal Range	Actual Value
Bags under the eyes	NORMAL	0.510 - 3.109	2.184
Collagen eye wrinkle	LOW	2.031 - 3.107	0.539
Dark circles	HIGH	0.831 - 3.188	7.643
Lymphatic obstruction	MILD HIGH	1.116 - 4.101	4.477
Sagging	HIGH	0.233 - 0.559	1.162
Edema	MILD HIGH	0.332 - 0.726	1.112
Eye cell activity	NORMAL	0.118 - 0.892	0.799
Visual fatigue	HIGH	2.017 - 5.157	9.333

- **Bags under the eyes:** Fluid accumulation under eyes. Indicates fatigue or kidney issues.
- **Collagen eye wrinkle:** Collagen loss around eyes. Causes fine lines and aging.
- **Dark circles:** Pigmentation or blood pooling under eyes. Indicates fatigue or genetics.
- **Lymphatic obstruction:** Blocked lymph drainage around eyes. Causes puffiness.
- **Sagging:** Skin laxity around eyes. Indicates collagen loss and aging.
- **Edema:** Fluid retention around eyes. Indicates inflammation or allergies.
- **Eye cell activity:** Cellular metabolism in eye tissues. Indicates eye health.
- **Visual fatigue:** Eye strain from overuse. Causes discomfort and blurred vision.

Detoxification Toxic Load

Score: **59/100** | Status: **Moderate Strain** | Abnormal Markers: **8**

Marker	Status	Normal Range	Actual Value
Stimulating Beverage	NORMAL	0.209 - 0.751	0.590
Electromagnetic Radiation	HIGH	0.046 - 0.167	0.933
Tobacco / Nicotine	NORMAL	0.124 - 0.453	0.396
Toxic Pesticide Residue	SEVERELY HIGH	0.013 - 0.313	0.678
Lead	HIGH	0.052 - 0.643	1.519
Mercury	MILD HIGH	0.013 - 0.336	0.646
Cadmium	MILD HIGH	0.527 - 1.523	1.852
Chromium	MILD HIGH	0.176 - 1.183	1.445
Arsenic	HIGH	0.153 - 0.621	1.798
Antimony	SEVERELY HIGH	0.162 - 0.412	1.396
Thallium	NORMAL	0.182 - 0.542	0.214

- **Stimulating Beverage:** Caffeine and stimulant exposure. Affects sleep, heart rate, and stress levels.
- **Electromagnetic Radiation:** EMF exposure from devices. May affect cellular function and sleep.
- **Tobacco / Nicotine:** Smoking and nicotine exposure. Increases cancer and cardiovascular disease risk.
- **Toxic Pesticide Residue:** Agricultural chemical exposure. Affects liver detoxification and hormone balance.
- **Lead:** Toxic metal affecting brain, kidneys, and blood. Causes neurological damage.
- **Mercury:** Toxic metal affecting brain and nervous system. Found in fish and dental fillings.
- **Cadmium:** Toxic metal affecting kidneys and bones. Found in cigarettes and industrial pollution.
- **Chromium:** Essential in trace amounts. Excess causes skin and lung problems.
- **Arsenic:** Toxic metalloid affecting skin, lungs, and bladder. Found in water and food.
- **Antimony:** Toxic metal affecting heart and lungs. Found in industrial products.
- **Thallium:** Highly toxic metal affecting nervous system. Found in industrial pollution.

Immune Allergy System

Score: **76/100** | Status: **Mild Strain** | Abnormal Markers: **6**

Marker	Status	Normal Range	Actual Value
Alcohol allergy index	MILD HIGH	0.432 - 1.246	2.044
Animal fur allergy index	HIGH	0.124 - 1.192	2.265
Chemical products allergy index	NORMAL	0.842 - 1.643	1.307
Drug allergy index	MILD HIGH	0.431 - 1.329	1.915
Dust allergy index	NORMAL	0.543 - 1.023	0.681
Hair dye allergy index	HIGH	0.717 - 1.486	3.944
Injection allergy index	NORMAL	0.847 - 1.045	1.022
Metal jewelry allergy index	NORMAL	0.549 - 1.213	0.782
Milk allergy index	NORMAL	0.477 - 1.348	1.245
Paint allergy index	SEVERELY HIGH	0.346 - 1.401	5.156
Pollen allergy index	NORMAL	0.143 - 1.989	1.481
Seafood allergy index	NORMAL	0.449 - 1.246	0.946
Smoke allergy index	MILD HIGH	0.826 - 1.013	2.450

- **Alcohol allergy index:** Sensitivity to alcohol. Causes flushing, nausea, or breathing issues.
- **Animal fur allergy index:** Sensitivity to pet dander. Causes sneezing and respiratory symptoms.
- **Chemical products allergy index:** Sensitivity to household chemicals. Causes skin and respiratory reactions.
- **Drug allergy index:** Sensitivity to medications. Indicates risk of adverse drug reactions.
- **Dust allergy index:** Sensitivity to dust mites. Causes sneezing and respiratory symptoms.
- **Hair dye allergy index:** Sensitivity to hair coloring chemicals. Causes scalp irritation.
- **Injection allergy index:** Sensitivity to injectable substances. Risk of anaphylaxis.
- **Metal jewelry allergy index:** Sensitivity to metals like nickel. Causes skin rashes.
- **Milk allergy index:** Sensitivity to dairy proteins. Causes digestive and skin issues.
- **Paint allergy index:** Sensitivity to paint fumes. Causes headaches and respiratory issues.
- **Pollen allergy index:** Sensitivity to plant pollen. Causes hay fever and respiratory symptoms.
- **Seafood allergy index:** Sensitivity to fish and shellfish. Can cause severe reactions.
- **Smoke allergy index:** Sensitivity to smoke particles. Causes respiratory irritation.

Gut Microbiome

Score: **78/100** | Status: **Mild Strain** | Abnormal Markers: **6**

Marker	Status	Normal Range	Actual Value
Aromabacteriaceae	MILD HIGH	0.900 - 1.062	1.125
Bacillus	HIGH	1.310 - 2.654	4.018
Bacteroides	NORMAL	1.048 - 1.875	1.360
Bacteroides faecalis	NORMAL	2.561 - 6.503	5.493
Bacteroides fragilis	NORMAL	1.327 - 6.636	2.891
Bacteroides monomorpha	NORMAL	2.654 - 1.294	1.367
Bacteroides ovale	NORMAL	2.654 - 6.768	5.413
Barnesellaceae	NORMAL	2.290 - 3.981	2.398
Butyromonas	SEVERELY LOW	2.309 - 3.981	1.268
Ostrichum	NORMAL	2.747 - 5.309	4.493
ParaPrevotella	HIGH	1.830 - 2.654	3.936
Parabacteroides gibsonii	NORMAL	1.350 - 2.920	1.943
Prevotella	HIGH	2.660 - 5.839	9.473
Rikenbacteriaceae	NORMAL	1.981 - 4.778	3.259
Staphylococcus equini	MILD HIGH	0.898 - 1.031	1.984
deputy Bacteroides	NORMAL	2.654 - 6.768	5.413

- **Aromabacteriaceae:** Bacterial family in gut. Involved in metabolism.
- **Bacillus:** Probiotic bacteria. Supports digestion and immunity.
- **Bacteroides:** Beneficial gut bacteria. Breaks down complex carbohydrates.
- **Bacteroides faecalis:** Gut bacteria species. Supports digestion and immunity.
- **Bacteroides fragilis:** Common gut bacteria. Supports immune system development.
- **Bacteroides monomorpha:** Gut bacteria species. Supports digestive health.
- **Bacteroides ovale:** Gut bacteria species. Involved in carbohydrate metabolism.
- **Barnesellaceae:** Bacterial family in gut. Supports metabolic health.
- **Butyromonas:** Butyrate-producing bacteria. Supports colon health.
- **Ostrichum:** Gut bacteria genus. Involved in digestion.
- **ParaPrevotella:** Gut bacteria genus. Breaks down proteins and carbohydrates.
- **Parabacteroides gibsonii:** Beneficial gut bacteria. Produces anti-inflammatory compounds.
- **Prevotella:** Gut bacteria genus. Breaks down fiber and proteins.
- **Rikenbacteriaceae:** Bacterial family in gut. Supports metabolic health.
- **Staphylococcus equini:** Gut bacteria species. Part of normal gut flora.



- **deputy Bacteroides:** Parabacteroides genus. Supports gut health.

Integumentary System

Score: **70/100** | Status: **Mild Strain** | Abnormal Markers: **1**

Marker	Status	Normal Range	Actual Value
Hair and skin	LOW	4.533 - 6.179	2.847

- **Hair and skin:** Collagen in skin and hair. Maintains firmness and strength.

Metabolic Balance

Score: **57/100** | Status: **Moderate Strain** | Abnormal Markers: **6**

Marker	Status	Normal Range	Actual Value
Fat Metabolism	LOW	6.338 - 8.368	3.339
Glycolipids	LOW	1.691 - 0.202	0.066
Phospholipids	SEVERELY LOW	1.150 - 0.840	0.429
phosphoric acid	LOW	1.203 - 1.063	0.640
Water Shortage	LOW	33.967 - 37.642	29.635
PH	LOW	7.350 - 7.450	7.242

- **Fat Metabolism:** Collagen role in fat tissue. Affects fat storage and metabolism.
- **Glycolipids:** Lipids with sugar groups. Important for cell recognition and signaling.
- **Phospholipids:** Major component of cell membranes. Essential for cellular function.
- **phosphoric acid:** Component of cell membranes. Essential for cellular structure.
- **Water Shortage:** Hydration status. Affects blood volume, nutrient transport, and cellular function.
- **PH:** Blood acidity/alkalinity balance. Critical for enzyme function and cellular metabolism.

Collagen System Overview

Score: **81/100** | Status: **Mild Strain** | Abnormal Markers: **5**

Marker	Status	Normal Range	Actual Value
Circulatory system	LOW	3.586 - 4.337	2.220
Detoxification and metabolism	NORMAL	6.187 - 8.466	6.222
Digestive system	NORMAL	3.492 - 4.723	4.210
Endocrine system	LOW	6.178 - 8.651	3.816
Immune system	MILD LOW	3.376 - 4.582	2.760
Motion systems	NORMAL	6.458 - 8.133	6.631
Nervous system	NORMAL	3.357 - 4.239	4.063
Reproductive system	LOW	3.778 - 4.985	2.374
Eye	LOW	6.352 - 8.325	3.761

- **Circulatory system:** Collagen in blood vessels. Maintains vessel strength and flexibility.
- **Detoxification and metabolism:** Collagen in liver and kidneys. Supports detox organs.
- **Digestive system:** Collagen in gut lining. Supports intestinal integrity.
- **Endocrine system:** Collagen in hormone-producing glands. Supports gland structure.
- **Immune system:** Collagen in immune organs. Supports immune structure.
- **Motion systems:** Collagen in joints and tendons. Enables movement and flexibility.
- **Nervous system:** Collagen in nerve sheaths. Protects nerve fibers.
- **Reproductive system:** Collagen in reproductive organs. Supports reproductive health.
- **Eye:** Collagen in eye structures. Maintains shape and clarity.