

# BioCellular Analysis Report

The Essential Test for  
Improving Your Health!



## BIOCELLULAR ANALYSIS TEST RESULTS

### Lab Services Report Sheet

Anna	ID: 10586
	Sex: Female
	Collection Date: 07/26/2010
Reporting Date: July 30, 2010	Test Kit ID: 10586-001

VALUES TESTED	NORMAL VALUES	PATIENT VALUES
SALIVA pH:	6.8 – 7.2	5.9 L
URINE pH:	5.8 – 6.2	6
CONDUCTIVITY (salts):	12 – 15	24 H
CARBOHYDRATE METABOLISM (sugars):	3.5 – 5.0	2.0 L
PROTEIN METABOLISM (nitrogen):	8 – 11	8
AMMONIA (metabolic toxicity):	5 – 8	8
SURFACE TENSION (anabolic or Catabolic):	66 – 68	66
rH2 URINE (cellular energy production):	22.5 – 24.5	20 L
rH2 SALIVA (oxidative stress):	22.0 – 23.5	20 L
SPECIFIC GRAVITY	1.015-1.020	1.015
VITAMIN C (Deficiency):	No	No
LIVER STRESS	No	No
GALLBLADDER STRESS:	No	No
KIDNEY STRESS	No	Yes
ADRENAL STRESS	No	No
PANCREAS STRESS	No	No
THYROID STRESS	No	Yes
THYMUS (Immune) STRESS	No	No
GASTROINTESTINAL STRESS	No	No
SPLEEN- IMMUNE STRESS:	No	No
HYDRATION:	Yes	No

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### INDICATIONS:

**Low Saliva pH** indicates efficiency and utilization of metabolic and digestive enzymes. Acidic saliva indicates an acidosis condition which means that acidity is breaking down body tissues. It is created by metabolic, dietary, and environmental waste that have a very negative influence on mitochondria function, hormone receptor sites, oxygen delivery, and enzyme activities. If the acidic environment is left unregulated, it will eventually result in abnormal cell growth. The acidic saliva pH will greatly disrupt the body's mineral balance. Over-acidity and overgrowth of microbes, fungi, viruses, and parasites are inextricably linked. These create more acidic waste products that further pollute the body. There will be a deficiency of the alkaline enzymes that can lead to a skeletal deficiency because the body will take calcium and minerals from the bones to compensate. So it is important to change the acidic saliva so that a healthy environment is created for normal cell, bone and skeletal growth.

**High Salt Conductivity** indicates that the sympathetic nervous system is on overdrive and triggering a fight or flight situation driving up the senses (sensory overload) and burning out the adrenals causing great fatigue, stress and anxiety with hyperactivity. The high salts are not only and specifically due to dietary issues, however, once the salts are high, children tend to crave salts. Take heed not to eat salty, dry or processed foods, which are high in salts and addictive. More foods high in potassium would be helpful. The salts elevate due to toxins in the kidneys, which elevate a hormone in the adrenals called Aldosterone. This causes the potassium to waste and the sodium to elevate. It also shifts the body into Metabolic Alkalosis zone, which is a high viral, bacteria, yeast, and fungus environment. Bringing down the salts and treating the GI tract will hopefully move the biochemistry into a protective zone.

**Low Carbohydrate Metabolism (sugar level)** indicates low blood sugar, mood swings, high anxiety, GI tract and digestive issues with high yeast, fungus, and Candida. It is very important to regulate the blood sugar so that hypoglycemia does not develop. Low blood sugar can cause adrenal exhaustion and fatigue as well as triggering sugar cravings, irritability, acid indigestion and behavioral issues such as non compliance, melt downs and uncontrollable anger. Low blood sugar can be symptomatic of neurological problems such as depression (Bipolar) and addictions. In order to help stabilize blood sugar levels, protein levels need to be adequate. More frequent small meals...feed sugar cravings with protein sources rather than more sugar to stabilize the blood sugar rather

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than feed into it which eventually develops hypoglycemia. This way a feeling of strength rather than a false high is achieved overcoming the feeling of fatigue as well. Avoid refined carbohydrates, trans-fats and sugars. Substitute sugar with xylitol, Stevia, brown rice syrup. Avoid white flour, white rice or white bread. Eat high protein and low glycemic breads. Eat frequently with protein at each meal to stabilize blood sugar.

**Low RH2 Urine = Low Cellular Energy Production** indicates that the mitochondria do not have sufficient energy to produce enough ATP for adequate muscle tone throughout the body. The Mitochondria helps the cells metabolize the fats, proteins and carbohydrates – it provides energy to the cells, also known as the powerhouse of the cell; the Mitochondria provide the location for the production of ATP (adenosine tri-phosphate) and creates the availability of energy at the cellular level: Glycolysis, the Krebs cycle, beta- oxidation and omega-oxidation of fatty acids and electron transport produce ATP. ATP provides energy for the cell at the molecular foundational level. When Cellular Energy is low and not functioning adequately there will be low muscle tone, low stamina, fatigue, muscle wasting, hypotonia, headaches, myalgia, myopathy, acid base imbalance and low energy levels.

**Low RH2 Saliva = Low Oxidative Stress** – This condition occurs when you have stagnated lymphatic drainage as well as diminished salivary enzymes for the digestive process. This shows a slow digestive system.

**Kidney Stress** can be due to high or low salts, toxins, alkaline or acidic Urine pH and lack of buffering minerals. The kidneys are responsible for filtering waste products that could damage your body. The kidneys also regulate sodium, potassium, magnesium and calcium (electrolytes) so that there is a buffering system to protect against too much acid. The kidneys are also responsible for releasing vital hormones such as “rennin” which regulates the salt levels and blood pressure. The kidneys also produce the active form of Vit. D, which is used for absorbing calcium and strengthening the muscular skeletal system. Kidney stress can cause high anxiety, stress, fears, sleep issues, inability to cope with stress, behavioral issues and unfounded worries all intensified more at nighttime.

**Thyroid Stress** - The thyroid is a small gland, shaped like a butterfly, located in the lower part of your neck. The function of a gland is to secrete hormones. The main hormones released by the thyroid are triiodothyronine, abbreviated as T3, and thyroxine, abbreviated as T4. These thyroid hormones deliver energy to cells of the body. The most common problems that develop in the thyroid include: hypothyroidism (an underactive thyroid), hyperthyroidism (an overactive thyroid). Most thyroid dysfunction such as hypothyroidism or hyperthyroidism is

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due to autoimmune disease. Autoimmune disease refers to a condition where the body's natural ability to differentiate between its tissues, organs and glands, vs. outside bacteria, viruses or pathogens, becomes disrupted. This causes the immune system to wrongly mount an attack on the affected area, by producing antibodies. Every cell in the body depends on regulation of the thyroid for cellular metabolism. Conversion of oxygen and calories depends on energy, which is derived from the thyroid. Recommendations will increase thyroid functioning, help improve cellular metabolism, and increase energy levels.

**Hydration - Intercellular Dehydration** occurs when there is adrenal stress and high salt conductivity. Good fats, minerals and electrolytes are needed for hydration to take place because the fat molecule merges with the water molecule on an intercellular level to hydrate the body. Recommendations are made.

Both dietary and supplementary nutritional recommendations have been made to help improve these issues.

### **RECOMMENDATIONS**

**SALIVA pH:** Spirulina – 2 caps 3 times daily

**CONDUCTIVITY (salts):** Magnesium Citrate – 100 mg – 2 caps twice daily

**CARBOHYDRATE METABOLISM (sugars):** Chromium GTF – 1 cap 3 times daily between meals

**rH2 URINE (cellular energy production):** Acetyl L-Tyrosine – 500 mg – 1 cap twice daily on empty stomach

**rH2 SALIVA (oxidative stress):** Papaya Enzyme – chew 3 before each meal

**KIDNEY STRESS:** Parsley Capsules – 2 caps 3 times daily

**THYROID STRESS:** Thyroid Boost – Cedar Bear Nutraceuticals – 6 drops twice daily

**HYDRATION:** Colloidal Minerals – 2 droppers twice daily from Source Naturals, Probiotic – 1 cap each morning