SpectraCell Laboratories
Science + Health + Solutions

LABORATORY REPORT

Account Number: 262851

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1095 Evergreen Circle
#200
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United States

Name: **Cheryl Winter**
Gender: Female DOB: 06/01/1958

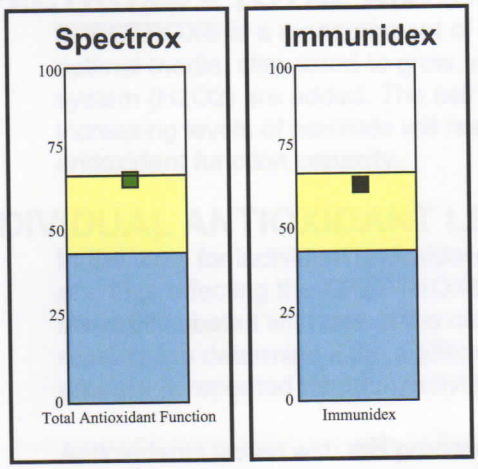
Accession Number: P01288
Requisition Number: 898247

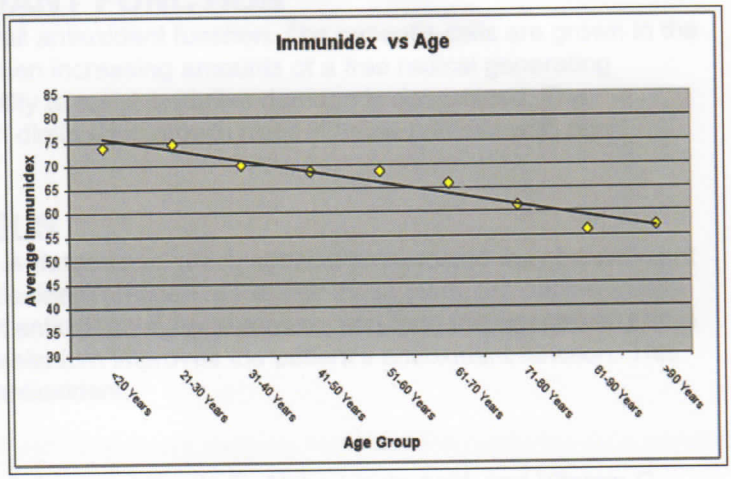
Date of Collection: 07/15/2015
Date Received: 07/16/2015
Date Reported: 07/30/2015

Summary of Deficient Test Results

Testing determined the following functional deficiencies:

Zinc





John F. Crawford, Ph.D.
Laboratory Director

CLIA# 45D0710715

Repletion Suggestions

1. Zinc	25 mg daily

Please note: Supplementation is usually required for four to six months to effect the repletion of a functional deficiency in lymphocytes

Suggestions for supplementation with specific micronutrients must be evaluated and approved by the attending physician. This decision should be based upon the clinical condition of the patient and the evaluation of the effects of supplementation on current treatment and medication of the patient.

Micronutrients	Patient Results (% Control)	Functional Abnormals	Reference Range (greater than)
B Complex Vitamins			
Vitamin B1 (Thiamin)	92		>78%
Vitamin B2 (Riboflavin)	56		>53%
Vitamin B3 (Niacinamide)	88		>80%
Vitamin B6 (Pyridoxine)	62		>54%
Vitamin B12 (Cobalamin)	18		>14%
Folate	39		>32%
Pantothenate	10		>7%
Biotin	44		>34%
Amino Acids			
Serine	39		>30%
Glutamine	56		>37%
Asparagine	50		>39%
Metabolites			
Choline	22		>20%
Inositol	60		>58%
Carnitine	65		>46%
Fatty Acids			
Oleic Acid	68		>65%
Other Vitamins			
Vitamin D3 (Cholecalciferol)	54		>50%
Vitamin A (Retinol)	76		>70%
Vitamin K2	49		>30%
Minerals			
Calcium	41		>38%
Manganese	62		>50%
Zinc	37	Deficient	>37%
Copper	49		>42%
Magnesium	40		>37%
Carbohydrate Metabolism			
Glucose-Insulin Interaction	45		>38%
Fructose Sensitivity	51		>34%
Chromium	43		>40%
Antioxidants			
Glutathione	45		>42%
Cysteine	54		>41%
Coenzyme Q-10	87		>86%
Selenium	80		>74%
Vitamin E (A-tocopherol)	88		>84%
Alpha Lipoic Acid	85		>81%
Vitamin C	57		>40%
SPECTROX™			
Total Antioxidant Function	66		>40%
Proliferation Index			
Immunidex	61		>40%

The reference ranges listed in the above table are valid for male and female patients 12 years of age or older.

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Values in this area represent a deficiency and may require nutrient repletion or dietary changes

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Borderline

Values in this area represent a borderline and may require nutrient repletion or dietary changes.

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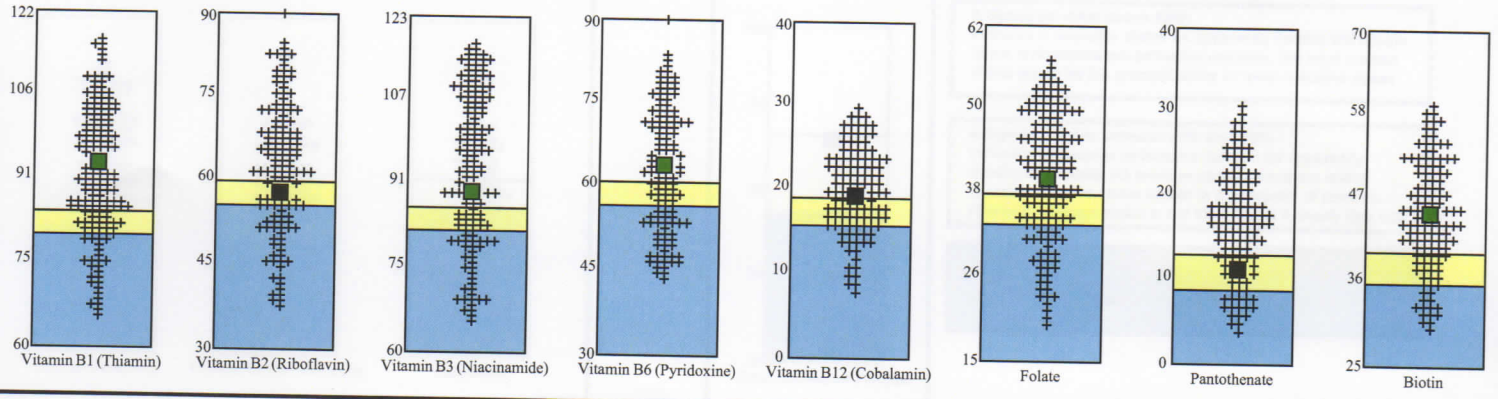
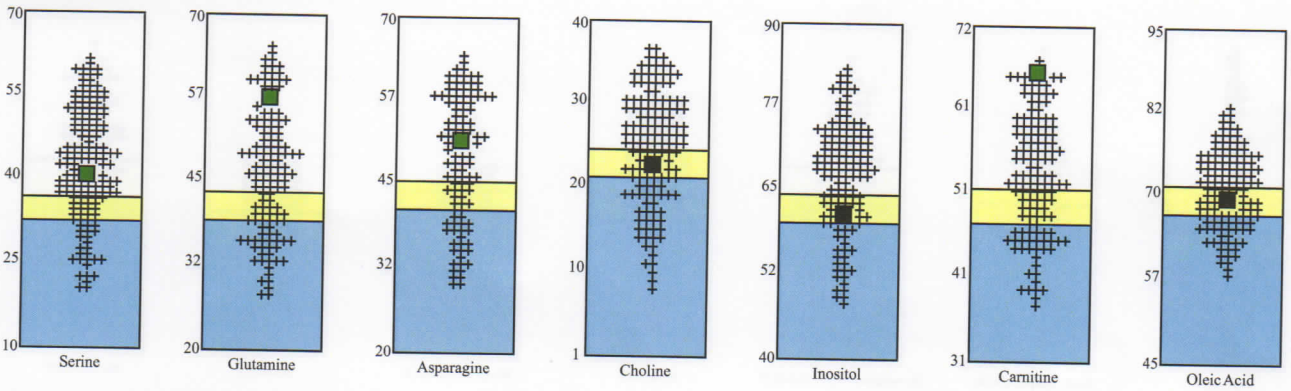
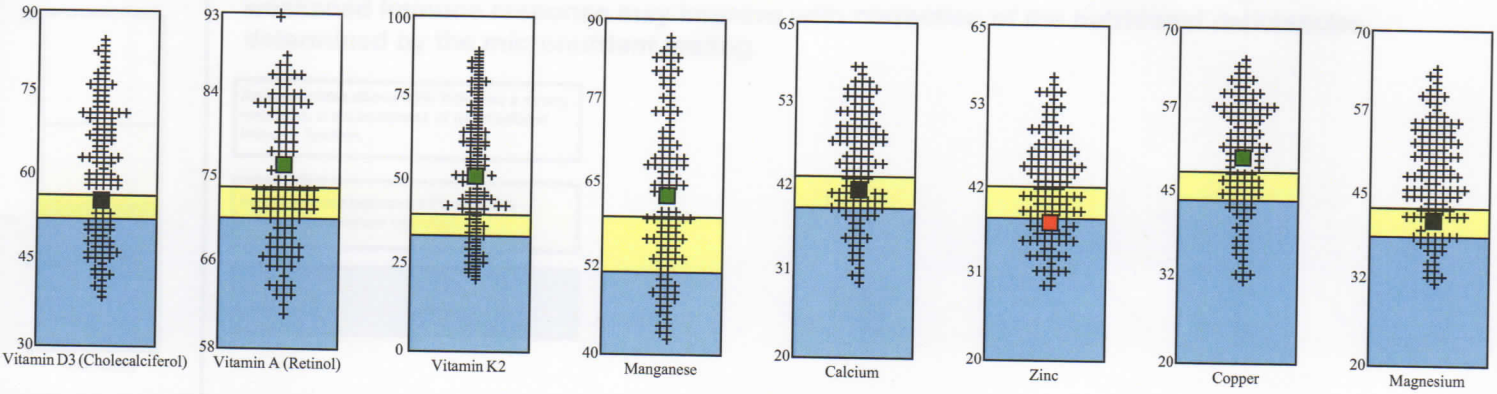
B Complex Vitamins



Amino Acids & Metabolites



Other Vitamins & Minerals



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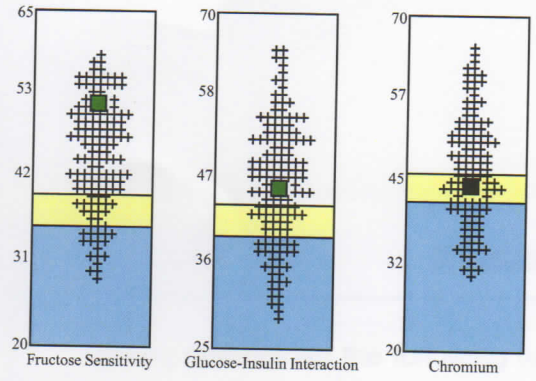
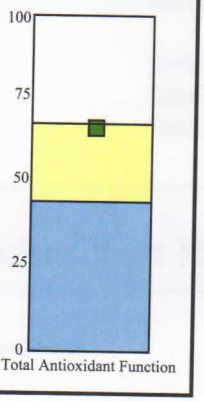
Carbohydrate Metabolism



Spectrox

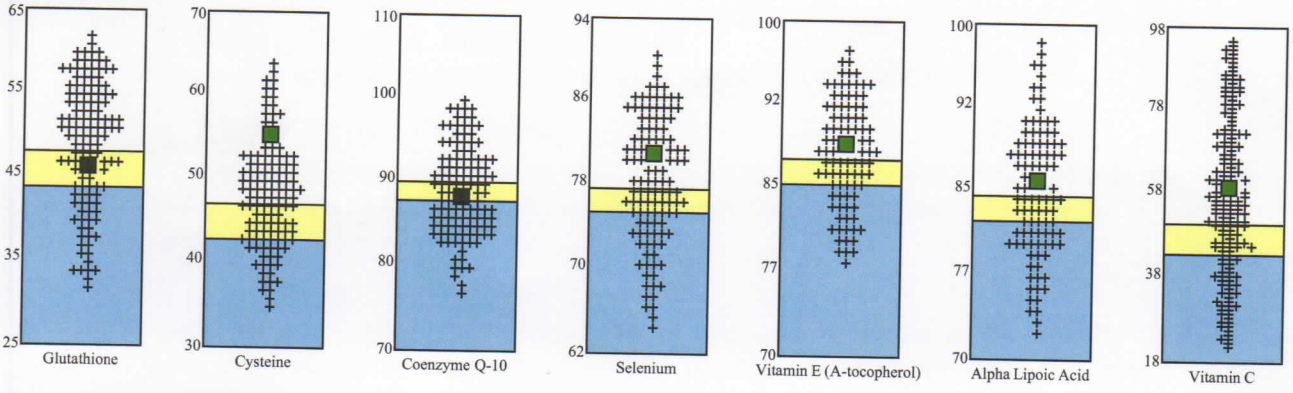


A Spectrox value above 65%-
indicates a desirable status for apparently healthy individuals. Since antioxidants are protective nutrients, the most desired status would be the greatest ability to resist oxidative stress.

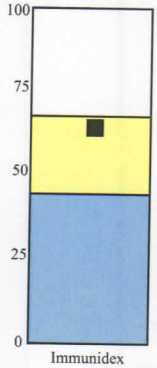
A Spectrox value between 40% and 65%-
indicates an average antioxidant function for apparently healthy individuals. An average status means the ability to resist oxidative stress similar to the majority of persons. However, average status is not ideal, nor is it clearly deficient.

A Spectrox value below 40%-
indicates a deficient antioxidant function resulting in a decreased ability to resist oxidative stress or an increased antioxidant load.

Individual Antioxidants



Immunidex



The Immunidex is an indication of the patient's T-Lymphoproliferative response to mitogen stimulation relative to the response of a control population. An average or weakened immune response may improve with correction of the nutritional deficiencies determined by the micronutrient testing.

An Immunidex above 65%- indicates a strong response, a measurement of cell-mediated immune function.

An Immunidex between 40% and 65% - indicates an average response.

An Immunidex below 40%- may indicate a weakened cell mediated immune response.