



SEX: Male  
AGE: 27

Inflammatory  
Pathway Cap + CoQ10

Suggestions for your consideration.  
As always, work with your Doctor.  
With love & hope, Dr. Amy

Toxic & Essential Elements; Hair

TOXIC METALS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE
			68 <sup>th</sup> 95 <sup>th</sup>
Aluminum (Al)	12	< 7.0	Bar chart showing result between 68th and 95th percentiles.
Antimony (Sb)	0.043	< 0.066	Bar chart showing result below 68th percentile.
Arsenic (As)	0.040	< 0.080	Bar chart showing result below 68th percentile.
Barium (Ba)	0.17	< 1.0	Bar chart showing result below 68th percentile.
Beryllium (Be)	< 0.01	< 0.020	Bar chart showing result below 68th percentile.
Bismuth (Bi)	0.044	< 2.0	Bar chart showing result below 68th percentile.
Cadmium (Cd)	< 0.009	< 0.065	Bar chart showing result below 68th percentile.
Lead (Pb)	0.09	< 0.80	Bar chart showing result below 68th percentile.
Mercury (Hg)	0.20	< 0.80	Bar chart showing result below 68th percentile.
Platinum (Pt)	< 0.003	< 0.005	Bar chart showing result below 68th percentile.
Thallium (Tl)	0.001	< 0.002	Bar chart showing result below 68th percentile.
Thorium (Th)	0.001	< 0.002	Bar chart showing result below 68th percentile.
Uranium (U)	0.001	< 0.060	Bar chart showing result below 68th percentile.
Nickel (Ni)	0.06	< 0.20	Bar chart showing result below 68th percentile.
Silver (Ag)	0.01	< 0.08	Bar chart showing result below 68th percentile.
Tin (Sn)	0.03	< 0.30	Bar chart showing result below 68th percentile.
Titanium (Ti)	0.66	< 0.60	Bar chart showing result above 95th percentile.
Total Toxic Representation			Bar chart showing total representation.

ESSENTIAL AND OTHER ELEMENTS			
	RESULT µg/g	REFERENCE INTERVAL	PERCENTILE
			2.5 <sup>th</sup> 16 <sup>th</sup> 50 <sup>th</sup> 84 <sup>th</sup> 97.5 <sup>th</sup>
Calcium (Ca)	710	200- 750	Bar chart showing result between 50th and 84th percentiles.
Magnesium (Mg)	61	25- 75	Bar chart showing result between 50th and 84th percentiles.
Sodium (Na)	72	20- 180	Bar chart showing result between 50th and 84th percentiles.
Potassium (K)	13	9- 80	Bar chart showing result between 50th and 84th percentiles.
Copper (Cu)	11	11- 30	Bar chart showing result between 50th and 84th percentiles.
Zinc (Zn)	200	130- 200	Bar chart showing result between 50th and 84th percentiles.
Manganese (Mn)	0.08	0.08- 0.50	Bar chart showing result between 50th and 84th percentiles.
Chromium (Cr)	2.0	0.40- 0.70	Bar chart showing result above 97.5th percentile.
Vanadium (V)	0.081	0.018- 0.065	Bar chart showing result above 97.5th percentile.
Molybdenum (Mo)	0.030	0.025- 0.060	Bar chart showing result above 97.5th percentile.
Boron (B)	0.32	0.40- 3.0	Bar chart showing result between 50th and 84th percentiles.
Iodine (I)	0.66	0.25- 1.8	Bar chart showing result between 50th and 84th percentiles.
Lithium (Li)	0.015	0.007- 0.020	Bar chart showing result between 50th and 84th percentiles.
Phosphorus (P)	293	150- 220	Bar chart showing result above 97.5th percentile.
Selenium (Se)	1.1	0.70- 1.2	Bar chart showing result between 50th and 84th percentiles.
Strontium (Sr)	0.23	0.30- 3.5	Bar chart showing result between 50th and 84th percentiles.
Sulfur (S)	46700	44000- 50000	Bar chart showing result between 50th and 84th percentiles.
Cobalt (Co)	0.008	0.004- 0.020	Bar chart showing result between 50th and 84th percentiles.
Iron (Fe)	9.7	7.0- 16	Bar chart showing result between 50th and 84th percentiles.
Germanium (Ge)	0.032	0.030- 0.040	Bar chart showing result between 50th and 84th percentiles.
Rubidium (Rb)	0.024	0.011- 0.12	Bar chart showing result between 50th and 84th percentiles.
Zirconium (Zr)	0.027	0.020- 0.44	Bar chart showing result between 50th and 84th percentiles.

SPECIMEN DATA		RATIOS		
COMMENTS: Results checked. <i>okay to add extra Hydroxy &amp; Adenosyl B12 &amp; low dose methylated A+B.</i>		ELEMENTS	RATIOS	RANGE
Date Collected: 01/24/2016	Sample Size: 0.202 g	Ca/Mg	11.6	4- 30
Date Received: 02/11/2016	Sample Type: Head	Ca/P	2.42	0.8- 8
Date Completed: 02/17/2016	Hair Color: Black	Na/K	5.54	0.5- 10
Methodology: ICP/MS	Treatment: THEN RERUN 2 HMT in 3 months to	Zn/Cu	18.2	4- 20
	Shampoo: Asan	Zn/Cd	> 999	> 800

Refer to your doctor as always

recheck levels



### Microbiology

#### Bacteriology

##### Beneficial Bacteria

Lactobacillus species		(*NG)
Escherichia coli		(4+)
Bifidobacterium		(4+)

##### Additional Bacteria

alpha haemolytic Streptococcus	NP		(4+)
gamma haemolytic Streptococcus	NP		(3+)
Bacillus species	NP	(2+)	
Enterobacter species	NP		(3+)
Staphylococcus aureus	NP		(3+)

#### Mycology

Candida albicans/dubliniensis	NP	(1+)
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### Additional Tests (if ordered)

	Inside	Outside	Reference Range
Campylobacter specific antigen	Not Ordered		Negative
Enterohemorrhagic Escherichia coli Shiga-like Toxin	Not Ordered		Negative

Human microflora is influenced by environmental factors and the competitive ecosystem of the organisms in the GI tract. Pathological significance should be based upon clinical symptoms and reproducibility of bacterial recovery.

### Microbiology Legend

*NG	NP	PP	P
No Growth	Non-Pathogen	Potential Pathogen	Pathogen

### Commentary

#### Lab Comments

Plant tannins is temporarily unavailable for yeast botanicals.

04/26/2015 afa

SENSI'S: All yeast, add'l bacteria

Commentary is provided to the practitioner for educational purposes, and should not be interpreted as diagnostic or treatment recommendations. Diagnosis and treatment decisions are the responsibility of the practitioner.



**Order Number: I4171090**

Completed: April 30, 2015

Received: April 17, 2015

Collected: April 13, 2015

DOB: January 05, 1989

Sex: M

MRN: 1232475605



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Asheville, NC 28801  
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Azole Antifungals					
CANDIDA ALBICANS/DUBLINIENSIS					
	R	I	S-DD*	S	NI*
Fluconazole	<input type="text"/>	<input type="text"/>	<input type="text"/>	<=0.125	<input type="text"/>
Itraconazole	<input type="text"/>	<input type="text"/>	<input type="text"/>	<=0.06	<input type="text"/>

Non-absorbed Antifungals	
CANDIDA ALBICANS/DUBLINIENSIS	
	Low Inhibition   High Inhibition
Nystatin	<input type="text"/>

Natural Antifungals	
CANDIDA ALBICANS/DUBLINIENSIS	
	Low Inhibition   High Inhibition
Berberine	<input type="text"/>
Caprylic Acid	<input type="text"/>
Garlic	<input type="text"/>
Undecylenic Acid	<input type="text"/>
Uva-Ursi	<input type="text"/>

**Prescriptive Agents:**

The R (Resistant) category implies isolate is not inhibited by obtainable levels of pharmaceutical agent.

The I (Intermediate) category includes isolates for which the minimum inhibition concentration (MIC) values usually approach obtainable pharmaceutical agent levels and for which response rates may be lower than for susceptible isolates.

\* The S-DD (Susceptible-Dose Dependent) category implies clinical efficacy when higher than normal dosage of a drug can be used and maximal concentration achieved.

The S (Susceptible) column implies that isolates are inhibited by the usually achievable concentrations of the pharmaceutical agent.

\* NI (No Interpretive guidelines established) category is used for organisms that currently do not have established guidelines for MIC interpretation.

Refer to published pharmaceutical guidelines for appropriate dosage therapy.

**Nystatin and Natural Agents:**

Results for Nystatin are being reported with natural antifungals in this category in accordance with laboratory guidelines for reporting sensitivities. In this assay, inhibition is defined as the reduction level on organism growth as a direct result of inhibition by a natural substance. The level of inhibition is an indicator of how effective the substance was at limiting the growth of an organism in an in vitro environment. High inhibition indicates a greater ability by the substance to limit growth, while Low Inhibition a lesser ability to limit growth. The designated natural products should be considered investigational in nature and not be viewed as standard clinical treatment substances.

This test has been developed and its performance characteristics determined by Genova Diagnostics, Inc. It has not been cleared or approved by the U.S. Food and Drug Administration.



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### Parasitology

#### Microscopic Exam Results

Methodologies used for the Ova & Parasites examination are sedimentation concentration of specimens followed by analysis by iodine wet mount and Trichrome stain permanent smear.

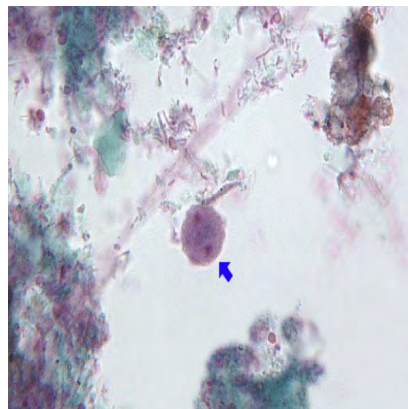
Dientamoeba fragilis: Rare Trophozoite(s)

#### Parasitology EIA Tests

	Inside	Outside	Reference Range
Cryptosporidium	Negative		Negative
Giardia lamblia	Negative		Negative
Entamoeba histolytica/dispar	Negative		Negative

Representative photograph of organism(s)

Dientamoeba fragilis trophozoites



**Macroscopic Exam for Larvae (if ordered)****Commentary**

Reported quantitation values were derived from a concentration of the sample(s) submitted and represent an "average" value.

*Lab Comments*

*Plant tannins is temporarily unavailable for yeast botanicals.*

*04/26/2015 afa*

*SENSI'S: All yeast, add'l bacteria*

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*Dientamoeba fragilis* is a pathogenic flagellate. Transmission is by direct ingestion of the trophozoite, via contaminated water. The organism usually resides in the cecum and proximal colon. Symptoms may include diarrhea, abdominal tenderness, weight loss, fatigue, blood in the stool and eosinophilia, although asymptomatic infections can occur.

## **Health history for hair test 281 (bother of 280)**

1) What are your current symptoms and health history?

First child. Normal. Diagnosed with eczema at age 3 gradually subside. Have hay fever (pollen allergy taking aureus tablet), allergic to dogs and cats. Have pits on nails. Athletic. Current symptoms. Gets cold easily.

2) Dental history (wisdom teeth removed? First root canal placed? Braces? First amalgam etc...)

No dental work.

3) What dental work do you currently have in place? What part of the dental cleanup have you completed?

No dental work.

4) What dentistry did your mother have at any time before or during pregnancy?

Mother had 7 amalgams prior to pregnancy.

5) What vaccinations have you had and when (including flu and especially travel shots)?

All the required childhood vaccinations.

6) Supplements and medications (including dosages) taken at time of hair test, or for the 3-6 months before the sample was taken.

Vitamin C 100 mg and 1 capsule fish oil.

7) What is your age, height and weight?

20 years old, 180 cm, 70 kilos

8) Other information you feel may be relevant?

9) What is your location - city & country (so that we can learn where certain toxins are more prevalent).

Oslo, Norway