EMPIRE CITY LABORATORIES

229 49th Street
Brooklyn, NY 11220-1708
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Fax. (718) 788-3871

Fermina M. Mazzella, MD
Laboratory Director
CLIA No: 33D1057336

Phys: **NATURAL BALANCE WELLNESS MEDICAL CENTER**
1310 SOUTH MAIN ST
ANN ARBOR, MI 48104
(734) 929-2696

Patient:
DOB: Age: Gender:
Phone: Fasting: Y
Spec#

BOGGESS, TONY

Accession: **1810172467** Coll. Date: 10/15/18 Recv. Date: 10/17/18 Print. Date: 10/27/18
Chart#: Coll. Time: 19:00 Recv. Time: 15:42 Print. Time: 19:51
First reported on: 10/17/2018 22:29 Final report date: 10/27/2018 19:51

Test Name	In Range	Out of Range	Reference	Units
HEMATOLOGY				
CBC WITH DIFFERENTIAL				
WBC	6.5		4.0-11.0	10(3)/uL
RBC	4.5		3.9-5.0	10(6)/uL
HEMOGLOBIN	12.4		11.9-15.5	g/dL
HEMATOCRIT	38.0		35.0-45.0	%
MCV	84.8		80-99	fL
MCH	28		25-33	pg
MCHC	33		31-35	g/dL
RDWSD	40.6		37.0-49.2	fL
RDWCV	13.2		11.0-15.5	%
PLT	221		150-450	10(3)/uL
MPV	10.1		9.7-13.0	fL
NE#	3.00		1.40-6.51	10(3)/uL
LY#	2.43		0.57-3.97	10(3)/uL
MO#	0.83		0.22-0.93	10(3)/uL
EO#	0.08		0.00-0.39	10(3)/uL
IG#		**0.13 H**	**0.00-0.03**	**10(3)/uL**
NE%	46.00		38.66-74.15	%
LY%	37		19-53	%
MO%		**12.7 H**	**2.0-12.5**	**%**
EO%	1.2		0-7	%
BA%	0.8		0-2	%
IG%		**2.00 H**	**0.00-0.50**	**%**
ESR				
ESR	1		<=20	mm/hr
CHEMISTRY				
CMP (COMPREHENSIVE METABOLIC PANEL)				
GLUCOSE FASTING,SERUM		**64 L**	**65-99**	**mg/dL**
SODIUM, SERUM	137		132-146	mEq/L
POTASSIUM, SERUM	note.0			mEq/L
Moderate hemolysis				
CHLORIDE, SERUM	104		99-109	mEq/L
CARBON DIOXIDE	25		22-35	mEq/L
ANION GAP				
unable to calculate.				
BLOOD UREA NITROGEN	11		9-23	mg/dL

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CHEMISTRY (Continued)				
CREATININE, SERUM	0.80		0.50-1.10	mg/dL
BUN/CREATININE RATIO				
BUN/CREATININE RATIO is not reported when the BUN and Creatinine values are within the normal range.				
CALCIUM, SERUM	9.1		8.3-10.6	mg/dL
TOTAL PROTEIN	7.1		5.7-8.2	g/dL
ALBUMIN	4.8		3.2-4.8	g/dL
GLOBULIN	2.3		1.8-4	gldl
A/G RATIO	2.09		1.00-2.10	g/dl
BILIRUBIN, TOTAL		**1.6 H**	**0.3-1.2**	**mg/dL**
ALKALINE PHOSPHATASE, ALP	66		45-129	U/L
ALT (SGPT)	19		10-49	U/L
AST	30		14-34	U/L
EGFR NON AFR AMERICAN	95		>=60	mL/min/1.73m2
EGFR AFR AMERICAN	115		>=60	mL/min/1.73m2
BILIRUBIN, DIRECT				
BILIRUBIN DIRECT	0.4		0.1-0.4	mg/dL
MAGNESIUM, SERUM				
MAGNESIUM, SERUM	2.2		1.3-2.7	mg/dL
MAGNESIUM, RBC				*1
MAGNESIUM,RBC	4.0		4.0-6.4	mg/dL

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Chantilly, VA 20151

URIC ACID

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Test Name	In Range	Out of Range	Reference	Units
CHEMISTRY (Continued)				
URIC ACID	4.7		3.1-7.8	mg/dL
PHOSPHATE (PHOSPHORUS)				
PHOSPHATE (PHOSPHORUS)	3.8		2.4-5.1	mg/dL
HOMOCYSTEINE				
HOMOCYSTEINE		**15.1 H**	**3.7-13.9**	**umol/L**
Patients taking methotrexate, nicotinic acid, theophylline, nitrous oxide, S-adenosyl-methionine, or L-dopa can have elevated HCY levels.				
LACTATE DEHYDROGENASE LDH				
LACTATE DEHYDROGENASE LDH		**292 H**	**100-200**	**U/L**
IRON AND IRON-BINDING CAP				
IRON, TOTAL	64		40-190	ug/dL
TRANSFERRIN	366		196-490	mg/dL
TIBC		**513.2 H**	**250-450**	**ug/dL**
UIBC		**449.2 H**	**130.0-375.0**	**ug/dL**
%SATURATION		**12.5 L**	**15.00-50.00**	**%**
FERRITIN				
FERRITIN	14.8		10.0-291.0	ng/mL
Iron deficiency: 0.68-34.5 ng/mL				
Other anemias: 13.0-1390.8 ng/mL				
Iron overload: 334.6-8573.0 ng/mL				
Renal dialysis: 31.3-1321.2 ng/mL				
Chronic liver disease: 7.9-12826.0 ng/mL				
LEPTIN				*1
LEPTIN	6.0			ng/mL

Reference Ranges for Leptin:

Adult Lean Subjects (18-71 years) with BMI range of 18-25:

Males: 0.3-13.4 ng/mL
Females: 4.7-23.7 ng/mL

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Test Name	In Range	Out of Range	Reference	Units

CHEMISTRY (Continued)

Adult Subjects (19-60 years) with BMI range of 25-30:

Males: 1.8-19.9 ng/mL
Females: 8.0-38.9 ng/mL

Pediatric Reference Ranges for Leptin:

5-9.9 years: 0.6-16.8 ng/mL
10-13.9 years: 1.4-16.5 ng/mL
14-17.9 years: 0.6-24.9 ng/mL

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33608 Ortega Highway
San Juan Capistrano, California 92690
Medical Director: Irina Maramica MD

C-REACTIVE PROTEIN, HIGH SENSITIVITY

CRP, HIGH SENSITIVITY	0.35		<=3	mg/L

Interpretation of the results:
Average cardiovascular risk according to AHA/CDC guidelines.
For ages >17 years:

CRP mg/dL	Risk
<1.0	Low cardiovascular risk according to AHA/CDC
1.0-3.0	Average cardiovascular risk according to AHA/CDC
>3.0-10.0	High cardiovascular risk according to AHA/CDC
>10.0	Persistent elevations may represent non-cardiovascular inflamation.

For ages < or = 17 years:
AHA/CDC recommendations for cardiovascular risk assessment does not apply to

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CHEMISTRY (Continued)				
non-adults				
ANTISTREPTOLYSIN O (ASO) ANTIBODY				
ASO ANTISTREPTOLYSIN O AB	157.7		0.0-200.0	IU/mL
CHOLESTEROL				
CHOLESTEROL	146		<=200	mg/dL
Desirable Range		< 200	mg/dL	
Borderline High Risk		200 to 239	mg/dL	
High risk		> or = 240	mg/dL	
CERULOPLASMIN				*1
CERULOPLASMIN	30		18-53	mg/dL
HISTAMINE,PLASMA				*1
HISTAMINE, PLASMA		**11.0 H**	**< OR = 1.8**	**ng/mL**

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Medical Director: Irina Maramica MD

GLYCO				
HEMOGLOBIN A1C				
HEMOGLOBIN A1C	4.3		4.2-5.6	%
Test Performed by Capillary Electrophoresis for HbA1c				
See Below:				
Non Diabetic		<=5.7	%	

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GLYCO (Continued)				
Mild Risk		5.7% - <=6.1	%	
Mod Risk		6.1% - <=6.5	%	
High Risk Diabetic		>=6.5	%	
GLYCOMARK (R)				
GLYCOMARK	17.84		7.3-36.6	ug/mL
GlycoMark reference ranges apply to persons without diabetes. In people with diabetes, under good to moderate glycemic control (Hemoglobin A1c levels =8%) GlycoMark level <8 g/mL suggest significant glycemic variability most likely due to post meal blood glucose levels increasing above 180 mg/dL.				
ELECTROPHORESIS				
IGA SERUM				
IMMUNOGLOBULIN A (IGA) SERUM	297		57-300	mg/dl
IGG SERUM				
IMMUNOGLOBULIN G (IGG) SERUM	1017		694-1618	mg/dl
IGM SERUM				
IMMUNOGLOBULIN M (IGM) SERUM	85		48-271	mg/dl
ENDOCRINOLOGY				
THYROID PANEL				
TSH,3RD GENERATION	1.00		0.35-5.50	uIU/mL
Pregnancy:				
First Trimester: 0.30-4.50 uIU/mL				
Second Trimester: 0.50-4.60 uIU/mL				
Third Trimester: 0.80-5.20 uIU/mL				
T4 FREE, THYROXINE	1.35		0.89-1.76	ng/dL
T4 TOTAL THYROXINE	8.6		4.5-10.9	ug/dL
T3 FREE TRIIODOTHYRONINE	2.70		2.30-4.20	pg/mL
T3 TOTAL	86		60.0-181.0	ng/dL
T3 UPTAKE	26.00		22.50-37.00	%
FTI	2.24		1.20-4.90	Index
T3,REVERSE				*1
T3 REVERSE, LC/MS/MS		**28 H**	**8-25**	**ng/dL**

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Test Name	In Range	Out of Range	Reference	Units

ENDOCRINOLOGY (Continued)

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14225 Newbrook Drive
Chantilly, VA 20151

THYROID STIMULATING IMMUN				
TSI		<0.10	0-0.55	IU/L
TRAB (TSH RECEPTOR BINDING ANTIBODY)				*1
TRAB		<6.0	<=16.0	%

Reference Range: <=16% inhibition

This test was performed at:
Quest Diagnostics Nichols Institute Chantilly
14225 Newbrook Drive
Chantilly, VA 20151

THYROGLOBULIN IGG AB				
Thyroglobulin IgG		<12	0-40	IU/ml
	<40	Negative		
	40-60	Equivocal		
	>60	Positive		
THYROID PEROXIDASE ANTIBO				
Thyroid Peroxidase IgG		<4	0-25	IU/ml
	<25	Negative		
	25-35	Equivocal		
	>35	Positive		
ESTRONE,LC/MS/MS				*1

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Test Name	In Range	Out of Range	Reference	Units

ENDOCRINOLOGY (Continued)

No suitable specimen received for test requested. Please resubmit.

ESTRADIOL-E2

ESTRADIOL-E2	97		SEE BELOW	pg/mL

Adult Female Normal Ranges:

Follicular Phase:	19-144 pg/mL
Mid-Cycle:	64-357 pg/mL
Luteal Phase:	56-214 pg/mL
Postmenopausal	<=32 pg/mL

The drug Fulvestrant cross reactivity could lead to falsely elevated estradiol test results leading to an inappropriate clinical assessment of estrogen status

PREGNENOLONE *1

No suitable specimen received for test requested. Please resubmit.

TESTOSTERONE FREE & TOTAL

SEX HORMONE BINDING GLOBU	114		18.0-144.0	nmol/L
TESTOSTERONE FREE CALCULATED	0.10		0.01-0.64	ng/dL
FREE TESTOSTERONE%	0.7			%

TESTOSTERONE TOTAL

TESTOSTERONE TOTAL	18.08		<=73.0	ng/dL

Female Normal Ranges: Premenopausal: < or = 73 ng/dL Postmenopausal: < or = 43 ng/dL

FSH(FOLLICLE STIMULATING HORMONE)

FSH(FOLLICLE STIMULATING HORMONE)	15.4		*SEE BELOW	mIU/mL

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ENDOCRINOLOGY (Continued)

Female Normal Ranges :
- Follicular Phase: 2.5 - 10.2 mIU/mL
- Midcycle Peak: 3.4 - 33.4 mIU/mL
- Luteal Phase: 1.5 - 9.1 mIU/mL
- Pregnant: < 0.3 mIU/mL
- Postmenopausal: 23.0 - 116.3 mIU/mL

LH (LUTEINIZING HORMONE)

LH(LUTEINIZING HORMONE)	9.2	*SEE BELOW	mIU/mL

Female Normal Ranges:

Follicular Phase:	1.9 - 12.5	mIU/mL
Midcycle Peak:	8.7 - 76.3	mIU/mL
Luteal Phase:	0.5 - 16.9	mIU/mL
Pregnant:	<0.5 - 1.5	mIU/mL
Postmenopausal:	15.9 - 54.0	mIU/mL
Contraceptives:	0.7 - 5.6	mIU/mL

PROLACTIN (PRL)

PROLACTIN	6.9	2.8-29.2	ng/mL

Female Normal Ranges:

Non-Pregnant:	2.8 - 29.2 ng/mL
Pregnant:	9.7 - 208.5 ng/mL
Postmenopausal:	1.8 - 20.3 ng/mL

CORTISOL AM

CORTISOL AM	8.4	4.3-25.0	ug/dL

DHEA SULFATE

DHEA-SULFATE	163.2	23-266	ug/dl

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Test Name	In Range	Out of Range	Reference	Units
ENDOCRINOLOGY (Continued)				
ADIPONECTIN				*1
ADIPONECTIN	14			mcg/mL

Reference Ranges for Adiponectin:

Body Mass Index	Males (mcg/mL)	Females (mcg/mL)
<25 kg/meters-squared	4-26	5-37
25-30 kg/meters-squared	4-20	5-28
>30 kg/meters-squared	2-20	4-22

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Medical Director: Irina Maramica MD

PARATHYROID HORMONE INTACT				
PTH, INTACT	31.7		18.5-88.0	pg/mL
New reference ranges for iPTH				
IMMUNOLOGY/SEROLOGY				
GLIADIN DEAMIDATED AB,IGG				
Gliadin,Deamidated Peptide IgG	<0.4		0-7	U/ml

<7 Negative
7-10 Equivocal
>10 Positive

GLIADIN DEAMIDATED AB,IGA

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IMMUNOLOGY/SEROLOGY (Continued)				
Gliadin,Deamidated Peptide IgA	4.2		0-7	U/ml
	<7 Negative			
	7-10 Equivocal			
	>10 Positive			
ANA/DS DNA				
ANA Screen(Symphony)	0.1		0-0.7	Ratio
	<0.7 Negative			
	0.7-1.00 Equivocal			
	>1.00 Positive			
dsDNA	<0.5		0-10	IU/ml
	<10 Negative			
	10-15 Equivocal			
	>15 Positive			
ANA IFA SCR W/REFL TITER				*1
ANA SCREEN,IFA	Negative		Negative	

ANA IFA is a first line screen for detecting the presence of up to approximately 150 autoantibodies in various autoimmune diseases. A negative ANA IFA result suggests ANA-associated autoimmune diseases are not present at this time.

Visit Physician FAQs for interpretation of all antibodies in the cascade, prevalence, and association with diseases at http://education.QuestDiagnostics.com/faq/FAQ177

RHEUMATOID FACTOR IGG/IGM				
RHEUMATOID FACTOR IGG/IGM	7.60		0.00-14.00	IU/mL
DNASE-B AB				*1
DNASE-B AB	287		< 301	U/mL

This test performed by:
Quest Diagnostics Nichols Institute
27027 Tourney Road
Valencia, CA 91355-5386

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Test Name	In Range	Out of Range	Reference	Units

IMMUNOLOGY/SEROLOGY (Continued)

TISSUE TRANSGLUTAM(IGG,A)

Celikey tTG IgA	0.7		0-7	U/ml
	<7 Negative			
	7-10 Equivocal			
	>10 Positive			
Celikey tTG IgG	<0.6		0-7	U/ml
	<7 Negative			
	7-10 Equivocal			
	>10 Positive			

ALLERGY

IGE SERUM

TOTAL IGE	8.02		0-25.0	kU/L

Specific IgE(kU/L)	Level	Class
<0.10	Normal	0
0.10-0.34	Equivocal/Borderline Clinical relevance undetermined	0/1
0.35-0.70	Low	1
0.71-3.50	Moderate	2
3.51-17.5	High	3
17.6-50.0	Very High	4
51.0-100.0	Very High	5
>100.0	Very High	6

TRACE ELEMENTS

COPPER, SERUM

COPPER	1206.29		700-1750	ug/L

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COPPER, RBC *1

COPPER,RBC	85			mcg/dL

Reporting Limit: 44 mcg/dL

EMPIRE CITY LABORATORIES

229 49th Street
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Tel. (718) 788-3840
Fax. (718) 788-3871

Fermina M. Mazzella, MD
Laboratory Director
CLIA No: 33D1057336

Phys: **NATURAL BALANCE WELLNESS MEDICAL CENTER**
1310 SOUTH MAIN ST
ANN ARBOR, MI 48104
(734) 929-2696

Patient:
DOB:
Phone:
Spec#

BOGGESS, TONY

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TRACE ELEMENTS (Continued)

NMS Labs derived data for 2.5th - 97.5th percentile range is 59 - 91 mcg/dL (n=1999).
The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mcg/dL units.
Analysis by Inductively Coupled Plasma/Optical Emission Spectrometry (ICP/OES)
Disclaimer: Specimens for elemental testing should be collected in certified metal-free containers. Elevated results for elemental testing may be caused by environmental contamination at the time of specimen collection and should be interpreted accordingly. It is recommended that unexpected elevated results be verified by testing another specimen.

Test performed by:
NMS LABS
3701 Welsh Road P.O. Box 433A
Willow Grove, PA 19090-0437

ZINC,RBC *1
ZINC,RBC 1100 mcg/dL
Reporting Limit: 44 mcg/dL
NMS Labs derived data for 2.5th - 97.5th percentile range is 794 - 1470 mcg/dL (n=2940).
The RBC sample used for analysis was measured by weight and multiplied by the density of human RBC (1.10 g/mL) to obtain mcg/dL units.
Analysis by Inductively Coupled Plasma/Optical Emission Spectrometry (ICP/OES)
Disclaimer: Specimens for elemental testing should be collected in certified metal-free containers. Elevated results for elemental testing may be caused by environmental contamination at the time of specimen collection and should be interpreted accordingly. It is recommended that unexpected elevated results be verified by testing another specimen.

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TRACE ELEMENTS (Continued)

NMS LABS
3701 Welsh Road P.O. Box 433A
Willow Grove, PA 19090-0437

ZINC, SERUM

ZINC, SERUM	774.82		600-1300	ug/L

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NUTRITION

FOLATE SERUM (FOLIC ACID)

FOLATE SERUM	19.3		>=5.38	ng/mL

Adult Ranges:
Deficient serum folate: 0.35-3.37 ng/mL
Indeterminate serum folate: 3.38-5.38 ng/mL
Normal serum folate: >5.38 ng/mL

VITAMIN B12

VITAMIN B12	352		211-911	pg/mL

VITAMIN D 25-HYDROXY

VITAMIN D 25-HYDROXY		**29.43 L**	**33.00-100.00**	**ng/mL**

< 10 ng/mL Severe Deficiency
10-29 ng/mL Mild to Moderate Deficiency
33-100 ng/mL Optimum Levels
> 100 ng/mL Toxicity Possible

VITAMIN D 1.25-DIHYDROXY

VITAMIN D 1.25	51.1		19.9-79.3	pg/mL

OTHER

OMEGACHECK				*1

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OTHER (Continued)				
EPA+DPA+DHA	5.5		>5.4	% by wt
Increasing blood levels of long-chain n-3 fatty acids are associated with a lower risk of sudden cardiac death (1). Based on the top (75th percentile) and bottom (25th percentile) quartiles of the CHL reference population, the following risk categories were established for OmegaCheck: A cut-off of >=5.5% by wt defines a population at low relative risk, 3.8-5.4% by wt defines a population at moderate relative risk, and <=3.7% by wt defines a population at high relative risk of sudden cardiac death. The totality of the scientific evidence demonstrates that when consumption of fish oils is limited to 3 g/day or less of EPA and DHA, there is no significant risk for increased bleeding time beyond the normal range. A daily dosage of 1 gram of EPA and DHA lowers the circulating triglycerides by about 7-10% within 2 to 3 weeks. (Reference: 1-Albert et al. NEJM. 2002; 346: 1113-1118). This test is performed by a Liquid Chromatography-Tandem Mass Spectrometry (LC/MS/MS) method. This test was developed and its performance characteristics determined by the Cleveland HeartLab. It has not been cleared or approved by the U.S. FDA. The Cleveland HeartLab is regulated under Clinical Laboratory Improvement Amendments (CLIA) as qualified to perform high-complexity testing. This test is used for clinical purposes. It should not be regarded as investigational or for research.				
ARACHIDONIC ACD/EPA RATIO		**10.0 H**	**<5.0**	
OMEGA-6/OMEGA-3 RATIO		**7.6 H**	**<4.5**	
OMEGA-3 TOTAL	5.5			% by wt
EPA		**1.1 L**	**>2.0**	**% by wt**
DPA	1.4		>1.0	% by wt
DHA		**3.0 L**	**>4.0**	**% by wt**
OMEGA-6 TOTAL	41.7			% by wt
Cleveland HeartLab measures a number of omega-6 fatty acids with AA and LA being the two most abundant forms reported.				
ARACHIDONIC ACID		**11.0 H**	**<9.0**	**% by wt**
LINOLEIC ACID		**27.8 H**	**<20.0**	**% by wt**

Test performed at:
Cleveland HeartLab, Inc
6701 Carnegie Ave

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OTHER (Continued)

Cleveland, OH 44103

MAILOUT SUMMARY

*1) QUEST DIAGNOSTICS INC, ONE MALCOLM AVE, TETERBORO, NJ, 07608