

Sample results. Actual results may vary.

PATIENT INFORMATION

REPORT STATUS: FINAL

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CLIENT INFORMATION



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SPECIMEN INFORMATION

SPECIMEN:

DOB:

REQUISITION:

AGE:

LAB REF NO:

GENDER:

FASTING:

COLLECTED:

Clinical Info:

RECEIVED:

REPORTED:

Test Name	Result	Flag	Reference Range	Lab
FASTING: YES				
LIPID PANEL				
CHOLESTEROL, TOTAL	138		<200 mg/dL	01
HDL CHOLESTEROL	53		>50 mg/dL	01
TRIGLYCERIDES	78		<150 mg/dL	01
LDL-CHOLESTEROL	69		mg/dL (calc)	01
Reference range: <100				
Desirable range <100 mg/dL for patients with CHD or diabetes and <70 mg/dL for diabetic patients with known heart disease.				
LDL-C is now calculated using the Martin-Hopkins calculation, which is a validated novel method providing better accuracy than the Friedewald equation in the estimation of LDL-C.				
Martin SS et al. JAMA. 2013;310(19): 2061-2068 (http://education.QuestDiagnostics.com/faq/FAQ164)				
CHOL/HDL-C RATIO	2.6		<5.0 (calc)	01
NON HDL CHOLESTEROL	85		<130 mg/dL (calc)	01
For patients with diabetes plus 1 major ASCVD risk factor, treating to a non-HDL-C goal of <100 mg/dL (LDL-C of <70 mg/dL) is considered a therapeutic option.				
PTH, INTACT AND CALCIUM				
PARATHYROID HORMONE, INTACT	39		14-64 pg/mL	01
Interpretive Guide	Intact PTH	Calcium		
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Normal Parathyroid	Normal	Normal		
Hypoparathyroidism	Low or Low Normal	Low		
Hyperparathyroidism				
Primary	Normal or High	High		
Secondary	High	Normal or Low		
Tertiary	High	High		
Non-Parathyroid				
Hypercalcemia	Low or Low Normal	High		
CALCIUM	9.1		8.6-10.2 mg/dL	01
MAGNESIUM				
MAGNESIUM	2.2		1.5-2.5 mg/dL	01
PHOSPHATE (AS PHOSPHORUS)				
PHOSPHATE (AS PHOSPHORUS)	3.9		2.5-4.5 mg/dL	01
IRON AND TOTAL IRON BINDING CAPACITY				
IRON, TOTAL	41		40-190 mcg/dL	01
IRON BINDING CAPACITY	419		250-450 mcg/dL (calc)	01
% SATURATION	10	LOW	11-50 % (calc)	01
COMPREHENSIVE METABOLIC PANEL				
GLUCOSE	88		65-99 mg/dL	01

Fasting reference interval

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UREA NITROGEN (BUN)	13		7-25 mg/dL	01
CREATININE	0.81		0.50-1.10 mg/dL	01
eGFR NON-AFR. AMERICAN	90		> OR = 60 mL/min/1.73m2	01
eGFR AFRICAN AMERICAN	105		> OR = 60 mL/min/1.73m2	01
BUN/CREATININE RATIO	NOT APPLICABLE		6-22 (calc)	01
SODIUM	137		135-146 mmol/L	01
POTASSIUM	4.1		3.5-5.3 mmol/L	01
CHLORIDE	103		98-110 mmol/L	01
CARBON DIOXIDE	28		20-31 mmol/L	01
CALCIUM	9.1		8.6-10.2 mg/dL	01
PROTEIN, TOTAL	7.0		6.1-8.1 g/dL	01
ALBUMIN	4.0		3.6-5.1 g/dL	01
GLOBULIN	3.0		1.9-3.7 g/dL (calc)	01
ALBUMIN/GLOBULIN RATIO	1.3		1.0-2.5 (calc)	01
BILIRUBIN, TOTAL	0.4		0.2-1.2 mg/dL	01
ALKALINE PHOSPHATASE	128	HIGH	33-115 U/L	01
AST	19		10-30 U/L	01
ALT	24		6-29 U/L	01
VITAMIN K				
VITAMIN K	<72	LOW	80-1160 pg/mL	02

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CBC (INCLUDES DIFF/PLT)

WHITE BLOOD CELL COUNT	4.4		3.8-10.8 Thousand/uL	01
RED BLOOD CELL COUNT	3.90		3.80-5.10 Million/uL	01
HEMOGLOBIN	10.4	LOW	11.7-15.5 g/dL	01
HEMATOCRIT	32.8	LOW	35.0-45.0 %	01
MCV	84.1		80.0-100.0 fL	01
MCH	26.7	LOW	27.0-33.0 pg	01
MCHC	31.7	LOW	32.0-36.0 g/dL	01
RDW	14.6		11.0-15.0 %	01
PLATELET COUNT	247		140-400 Thousand/uL	01
MPV	10.5		7.5-12.5 fL	01
ABSOLUTE NEUTROPHILS	2363		1500-7800 cells/uL	01
ABSOLUTE BAND NEUTROPHILS	DNR		0-750 cells/uL	01
ABSOLUTE METAMYELOCYTES	DNR		0 cells/uL	01
ABSOLUTE MYELOCYTES	DNR		0 cells/uL	01
ABSOLUTE PROMYELOCYTES	DNR		0 cells/uL	01
ABSOLUTE LYMPHOCYTES	1584		850-3900 cells/uL	01
ABSOLUTE MONOCYTES	330		200-950 cells/uL	01
ABSOLUTE EOSINOPHILS	92		15-500 cells/uL	01
ABSOLUTE BASOPHILS	31		0-200 cells/uL	01
ABSOLUTE BLASTS	DNR		0 cells/uL	01
ABSOLUTE NUCLEATED RBC	0		0 cells/uL	01
NEUTROPHILS	53.7		%	01
BAND NEUTROPHILS	DNR		%	01
METAMYELOCYTES	DNR		%	01
MYELOCYTES	DNR		%	01
PROMYELOCYTES	DNR		%	01
LYMPHOCYTES	36.0		%	01
REACTIVE LYMPHOCYTES	DNR		0-10 %	01
MONOCYTES	7.5		%	01
EOSINOPHILS	2.1		%	01
BASOPHILS	0.7		%	01
BLASTS	DNR		%	01
NUCLEATED RBC	DNR		0 /100 WBC	01
COMMENT(S)	DNR			01

FERRITIN

FERRITIN	4	LOW	10-232 ng/mL	01
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FOLATE, SERUM

FOLATE, SERUM	16.3	ng/mL	01
	Reference Range		
	Low:	<3.4	
	Borderline:	3.4-5.4	
	Normal:	>5.4	

T3, TOTAL

T3, TOTAL	90	76-181 ng/dL	01
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T4 (THYROXINE), TOTAL

T4 (THYROXINE), TOTAL	6.8	4.5-12.0 mcg/dL	01
FREE T4 INDEX (T7)	DNR	1.4-3.8	01

TSH

TSH	1.45	mIU/L	01
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Reference Range

> or = 20 Years 0.40-4.50

Pregnancy Ranges

First trimester	0.26-2.66
Second trimester	0.55-2.73
Third trimester	0.43-2.91

VITAMIN B12

VITAMIN B12	290	200-1100 pg/mL	01
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Please Note: Although the reference range for vitamin B12 is 200-1100 pg/mL, it has been reported that between 5 and 10% of patients with values between 200 and 400 pg/mL may experience neuropsychiatric and hematologic abnormalities due to occult B12 deficiency; less than 1% of patients with values above 400 pg/mL will have symptoms.

HEMOGLOBIN A1c

HEMOGLOBIN A1c	5.4	<5.7 % of total Hgb	01
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For the purpose of screening for the presence of diabetes:

<5.7%	Consistent with the absence of diabetes
5.7-6.4%	Consistent with increased risk for diabetes (prediabetes)
> or =6.5%	Consistent with diabetes

This assay result is consistent with a decreased risk of diabetes.

Currently, no consensus exists regarding use of hemoglobin A1c for diagnosis of diabetes in children.

According to American Diabetes Association (ADA) guidelines, hemoglobin A1c <7.0% represents optimal control in non-pregnant diabetic patients. Different metrics may apply to specific patient populations. Standards of Medical Care in Diabetes(ADA).

VITAMIN A (RETINOL)

VITAMIN A (RETINOL)	41	38-98 mcg/dL	03
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**Clin Chem Vol. 34.No.8. pp1625-1628. 1998

Vitamin supplementation within 24 hours prior to blood draw may affect the accuracy of results.

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Food and Drug Administration. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

VITAMIN E (TOCOPHEROL)

ALPHA-TOCOPHEROL 8.3 5.7-19.9 mg/L 03

Pediatric Term Infants (Cord Blood) 1.8 - 5.8 mg/L

Levels of alpha-tocopherol < 5 mg/L are consistent with Vitamin E deficiency in adults

BETA-GAMMA-TOCOPHEROL 1.0 < 4.3 mg/L 03

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VITAMIN B1 (THIAMINE), BLOOD, LC/MS/MS

VITAMIN B1 (THIAMINE), BLOOD, 117 78-185 nmol/L 03

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QUESTASSURED 25-OH VIT D, (D2,D3), LC/MS/MS

VITAMIN D, 25-OH, TOTAL 29 **LOW** 30-100 ng/mL 03

25-OHD3 indicates both endogenous production and supplementation. 25-OHD2 is an indicator of exogenous sources, such as diet or supplementation. Therapy is based on measurement of Total 25-OHD, with levels <20 ng/mL indicative of Vitamin D deficiency, while levels between 20 ng/mL and 30 ng/mL suggest insufficiency. Optimal levels are > or = 30 ng/mL.

VITAMIN D, 25-OH, D3 29 See Below ng/mL 03

Reference Range: Not established

VITAMIN D, 25-OH, D2 <4 See Below ng/mL 03

Reference Range: Not established

ZINC

ZINC 76 60-130 mcg/dL 01

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Performing Laboratory Information: