Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Update Notes
Due to nationwide shortage of some Dark blue EDTA phlebotomy tubes specified for trace element testing, Warde Laboratory is currently accepting Lavender EDTA tubes.

Update Summary		
Announcement	6/1/2022	Temporary Performing Location
Update Existing Test	6/28/2022	11DCR - "11-Deoxycortisol"
Update Existing Test	6/28/2022	17OPC - "17-Hydroxyprogesterone, Child"
Update Existing Test	6/28/2022	21HYD - "21-Hydroxylase Ab, Serum"
Update Existing Test	6/27/2022	A1AGQ - "Alpha-1-Antitrypsin Genotype"
Update Existing Test	6/28/2022	ADACT - "Adalimumab Activity and Neutralizing Antibody"
Update Existing Test	6/28/2022	ADDPF - "Adenosine Deaminase, Pericardial Fluid"
Update Existing Test	6/27/2022	AGDEL - "Alpha-globin Gene Del or Dup"
Update Existing Test	6/28/2022	CARFT - "Carnitine Free and Total"
Update Existing Test	6/28/2022	COXBA - "Coxsackie B Virus Abs"
Update Existing Test	6/28/2022	HTL12 - "HTLV-1 and 2 (EIA) with Reflex"
Update Existing Test	6/28/2022	INSAB - "Insulin Antibody"
Update Existing Test	6/1/2022	LEAD - "Lead"
Update Existing Test	6/1/2022	MVHIS - "Histoplasma Quantitative Antigen EIA"
Update Existing Test	6/28/2022	PETHB - "Phosphatidylethanol (Peth), Whole Blood"
Update Existing Test	6/28/2022	PSE - "Pseudocholinesterase"
Update Existing Test	6/28/2022	THY - "Thyroglobulin and Anti-Thyroglobulin Antibody Panel"
Update Existing Test	6/28/2022	UCRET - "Creatine, Urine, 24 Hour"
Update Existing Test	6/28/2022	VITD - "25-hydroxy Vitamin D"
Update Existing Test	6/1/2022	ZPPI - "Lead-ZPP Industrial"
Inactivate Test Without Replacement	6/1/2022	GLAMB - "Giardia lamblia IgG Ab"

Announcement
Due to reagent shortage, Quest SJC will temporarily direct all HPVRA [3400161] - HPV RNA, Low and High Risk, ISH to Mayo Clinics. Currently there will be no change to the test code build. The expected delivery of reagent is September 2022.

Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Update Existing Test	
Effective Date	6/28/2022
Name	11-Deoxycortisol
Code	11DCR
Interface Order Code	3687960
Legacy Code	11DCOR
Notes	Updates to alternate specimen.
Required Testing Changes	
Alternate Specimen	Plasma: Lavender EDTA or green sodium heparin, **lithium heparin** Serum: Red top

Update Existing Test	
Effective Date	6/28/2022
Name	17-HYDROXYPROGESTERONE QUANTITATIVE, CHILD
Code	17OPC
Interface Order Code	3670200
Legacy Code	17OPROGARP
Notes	Updates to alternate specimen.
Required Testing Changes	
Alternate Specimen	Plasma: Lavender EDTA, Green sodium heparin or **lithium heparin** Serum: Red top

Update Existing Test			
Effective Date	6/28/2022		
Name	21-Hydroxylase Ab, Serum		
Code	21HYD		
Interface Order Code	3687160		
Legacy Code	21HYDAB		
Notes	Update to rejection criteria and LOINC.		
Required Testing Changes			
Rejection Criteria	Grossly hemolyzed **or lipemic**		
Result Code	**Name**	**LOINC Code**	**AOE/Prompt[2]**
3687160	21-Hydroxylase Ab, Serum	**85363-0**	No

Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Update Existing Test	
Effective Date	6/27/2022
Name	Alpha-1-Antitrypsin Genotype
Code	A1AGQ
Interface Order Code	3426040
Legacy Code	A1AGENQ
Notes	Updates to patient prep, specimen preparation, alternate specimens, and stability.
Required Testing Changes	
Specimen Required	*Patient Preparation:* **This test requires a physician attestation form that patient consent has been received if the ordering medical facility is located in AK, DE, FL, GA, IA, MA, MN, NV, NJ, OR, SD or VT or test is performed in MA.** *Collect:* Lavender EDTA *Specimen Preparation:* Send 5.0 mL wole blood. Do not transfer to other containers. Specimen stability is crucial. **Store and ship at room temperature.** *Minimum Volume:* 2.0 mL *Transport Temperature:* **Room temperature only**
Alternate Specimen	**Whole blood: ACD A, ACD B, sodium heparin**
Stability	Room temperature: 8 days Refrigerated: **Unacceptable** Frozen: Unacceptable

Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Update Existing Test			
Effective Date	6/28/2022		
Name	Adalimumab Activity and Neutralizing Antibody		
Code	ADACT		
Interface Order Code	3618440		
Legacy Code	ADACT		
Notes	Updates to specimen preparation, performed days and LOINC.		
Required Testing Changes			
Specimen Required	*Specimen Preparation:* Centrifuge, separate serum cells **as soon as possible or within 2 hours** and send 1.0 mL serum in a screw capped plastic vial.		
Performed Days	**Monday - Sunday**		
Result Code	**Name**	**LOINC Code**	**AOE/Prompt[2]**
3618450	Adalimumab Activity	74117-3	No
3618460	Adalimumab Neutralizing Antibody	**92765-7**	No
3618470	EER Adalimumab	11526-1	No

Update Existing Test	
Effective Date	6/28/2022
Name	Adenosine Deaminase, Pericardial Fluid
Code	ADDPF
Interface Order Code	3600193
Legacy Code	ADDPF
Notes	Update to rejection criteria.
Required Testing Changes	
Rejection Criteria	Whole blood, bronchoalveolar lavage, **turbid specimens**

Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Update Existing Test	
Effective Date	6/27/2022
Name	Alpha-globin Gene Del or Dup
Code	AGDEL
Interface Order Code	3426420
Legacy Code	AGDELDUP
Notes	Updates to patient prep, specimen preparation, alternate specimens, and performed days.
Required Testing Changes	
Specimen Required	*Patient Preparation*: **This test requires a physician attestation form that patient consent has been received if the ordering medical facility is located in AK, DE, FL, GA, IA, MA, MN, NV, NJ, OR, SD or VT or test is performed in MA.** *Collect:* Lavender EDTA *Specimen Preparation:* Send 5.0 mL whole blood. *Minimum Volume:* 3.0 mL *Transport Temperature:* Room temperature
Alternate Specimen	**Whole blood: yellow ACD B, green sodium heparin Amniotic fluid (20.0 mL; 5.0 mL minimum)** **Cultured Cells** **Chorionic villus sampling (20 mg; 10 mg minimum)**
Stability	***Whole Blood:*** **Room temperature: 30 days** **Refrigerated: 30 days** **Frozen: 30 days** ***Other specimens:*** **Room temperature: 48 hours** **Refrigerated: Unacceptable** **Frozen: Unacceptable**
Performed Days	**Tuesday**

Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Update Existing Test	
Effective Date	6/28/2022
Name	Carnitine Free and Total
Code	CARFT
Interface Order Code	3607300
Legacy Code	CARNARP
Notes	Updates to specimen collected and LOINC.
Required Testing Changes	
Specimen Required	*Collect:* Green sodium heparin **or lithium.** *Specimen Preparation:* Centrifuge, separate plasma within 2 hours and send 0.5 mL plasma frozen within 2 hours in a screw capped plastic vial. CRITICAL FROZEN. *Minimum Volume:* 0.2 mL *Transport Temperature:* Critical frozen

Result Code	Name	LOINC Code	AOE/Prompt[2]
3607310	Carnitine, Free, Serum/Plasma	14286-9	No
3607320	Carnitine, Total, Serum/Plasma	14288-5	No
3607330	Carnitine, Esterified, Serum/Plasma	**19074-4**	No
3607335	Carnitine E/F Ratio, Serum/Plasma	40869-0	No

Update Existing Test	
Effective Date	6/28/2022
Name	Coxsackie B Virus Abs
Code	COXBA
Interface Order Code	3671705
Legacy Code	COXBARP
Notes	Updates to rejection criteria.
Required Testing Changes	
Rejection Criteria	Plasma specimens, CSF, **hemolyzed/lipemic specimens**

Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Update Existing Test	
Effective Date	6/28/2022
Name	HTLV-1 and 2 (EIA) with Reflex
Code	HTL12
Interface Order Code	3503620
Legacy Code	HTLV12
Notes	Updates to alternate specimen.
Required Testing Changes	
Alternate Specimen	Plasma: Lavender EDTA, green sodium or lithium heparin, **Light blue (sodium citrate)** Serum: Red top

Update Existing Test			
Effective Date	6/28/2022		
Name	Insulin Antibody		
Code	INSAB		
Interface Order Code	3620680		
Legacy Code	INSABARP		
Notes	Updates to rejection criteria and LOINC.		
Required Testing Changes			
Rejection Criteria	**Plasma, hemolyzed or lipemic**		
Result Code	**Name**	**LOINC Code**	**AOE/Prompt²**
3620680	Insulin Antibody	**56546-5**	No

Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Update Existing Test	
Effective Date	6/1/2022
Name	Lead
Code	LEAD
Interface Order Code	1000370
Legacy Code	LEAD
Notes	Updates to reference range and message. Please see example reports.
Required Testing Changes	
Reference Range	COMPONENT REFERENCE INTERVAL **Lead, Whole Blood < 6 years: <3.5 µg/dL** **In 2021, CDC revised the blood lead reference level for children ages 1-5 years to less than 3.5 ug/dL. Children with levels at or above this value represent those at the top 2.5% of blood levels.** **CDC recommendations for clinical follow up and lead level monitoring may vary depending on initial measured lead level and the child's age. Local and state health departments also may have different recommendations for monitoring and clinical follow up. Please consult your local or state health department, or the CDC's website regarding monitoring of lead levels in children:** **https://www.cdc.gov/nceh/lead/acclpp/actions_blls.html** COMPONENT REFERENCE INTERVAL Lead, Whole Blood >= 6 years: < 5.0 µg/dL **CDC recommendations for clinical follow up and lead level monitoring may vary depending on initial measured lead level and the patient's age. Local and state health departments also may have different recommendations for monitoring and clinical follow up. Please consult your local or state health department, or the CDC's website regarding monitoring of lead levels in adults:** **https://www.cdc.gov/niosh/topics/ables/pdfs/**

LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT
WX0000003735 M 04/12/2022

Collected: 05/26/2022 17:24 Received: 05/26/2022 17:24

Test Name	Result	Flag	Ref-Ranges	Units	Site
Lead	3.6	H	<3.5	ug/dL	WMRL

In 2021, CDC revised the blood lead reference level for children ages 1-5 years to less than 3.5 ug/dL. Children with levels at or above this value represent those at the top 2.5% of blood levels.

CDC recommendations for clinical follow up and lead level monitoring may vary depending on initial measured lead level and the child's age. Local and state health departments also may have different recommendations for monitoring and clinical follow up. Please consult your local or state health department, or the CDC's website regarding monitoring of lead levels in children:

https://www.cdc.gov/nceh/lead/acclpp/actions_blls.html

Methodology used in analysis is atomic absorption.

Elevated results may be due to skin or collection-related contamination, including the use of a noncertified lead-free tube,or transfer of sample into a noncertified lead-free tube. If contamination concerns exist due to elevated levels of blood lead, confirmation with a venous specimen collected in a certified lead-free tube is recommended.

The Blood Lead test was developed and the performance characteristics determined by Warde Medical Laboratory. It has not been cleared or approved by the FDA. The laboratory is regulated under CLIA as qualified to perform high-complexity testing. This test is used for patient testing purposes. It should not be regarded as investigational or for research.

Performing Site:
WMRL: Warde Medical Laboratory 300 West Textile Road Ann Arbor MI 48108 (800)876-6522

Warde Medical Laboratory

LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT
WX0000003039 M 12/05/1988

Collected: 05/26/2022 17:24 Received: 05/26/2022 17:24

Test Name	Result	Flag	Ref-Ranges	Units	Site
Lead	5.1	H	<5.0	ug/dL	WMRL

CDC recommendations for clinical follow up and lead level monitoring may vary depending on initial measured lead level and the patient's age. Local and state health departments also may have different recommendations for monitoring and clinical follow up. Please consult your local or state health department, or the CDC's website regarding monitoring of lead levels in adults:

https://www.cdc.gov/niosh/topics/ables/pdfs/

Methodology used in analysis is atomic absorption.

Elevated results may be due to skin or collection-related contamination, including the use of a noncertified lead-free tube,or transfer of sample into a noncertified lead-free tube. If contamination concerns exist due to elevated levels of blood lead, confirmation with a venous specimen collected in a certified lead-free tube is recommended.

The Blood Lead test was developed and the performance characteristics determined by Warde Medical Laboratory. It has not been cleared or approved by the FDA. The laboratory is regulated under CLIA as qualified to perform high-complexity testing. This test is used for patient testing purposes. It should not be regarded as investigational or for research.

Performing Site:
WMRL: Warde Medical Laboratory 300 West Textile Road Ann Arbor MI 48108 (800)876-6522

Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Update Existing Test	
Effective Date	6/1/2022
Name	Histoplasma Quantitative Antigen EIA
Code	MVHIS
Interface Order Code	3432600
Legacy Code	MVHIS
Notes	Updates to specimen preparation, alternate specimens, and rejection criteria.
Required Testing Changes	
Specimen Required	*Patient Preparation:* List all antifungal agents patient is receiving. *Collect:* Random urine *Specimen Preparation:* Send **0.5 mL urine in a sterile screw capped plastic container.** *Minimum Volume:* 0.5 mL *Transport Temperature:* Refrigerated
Alternate Specimen	**Serum: Collect serum in red top or serum separator tube (SST), allow 30 min to clot, centrifuge and send 1.2 mL in a plastic screw capped vial.** **Plasma: Collect plasma in Lavender EDTA, green sodium heparin or 3.2% sodium citrate light blue top tube. Centrifuge for 15 minutes and transfer 0.8 mL plasma to a plastic screw capped vial.** **CSF/BAL/Other Body fluid: send 0.5 mL in a sterile screw capped container.**
Rejection Criteria	Tissue, sputum, bronchial brushings, stool, **fine needle aspiration (FNA)**, biopsy, tracheal or bone marrow aspirate. Specimens too viscous to pipette, samples in transport media; **fixative or isolator tube**

Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Update Existing Test			
Effective Date	6/28/2022		
Name	Phosphatidylethanol (Peth), Whole Blood		
Code	PETHB		
Interface Order Code	3600171		
Legacy Code			
Notes	Updates to alternate specimen and LOINC.		
Required Testing Changes			
Alternate Specimen	Gray top, **green (lithium heparin)**		
Result Code	**Name**	**LOINC Code**	**AOE/Prompt²**
3600172	PEth 16:0/18.1 (POPEth)	**97607-6**	No
3600173	PEth 16:0/18.2 (PLPEth)	**97606-8**	No

Update Existing Test	
Effective Date	6/28/2022
Name	Pseudocholinesterase
Code	PSE
Interface Order Code	3685280
Legacy Code	PSEAR
Notes	Updates to accepted alternate specimens.
Required Testing Changes	
Alternate Specimen	Plasma: Lavender EDTA

Update Existing Test	
Effective Date	6/28/2022
Name	Thyroglobulin and Anti-Thyroglobulin Antibody Panel
Code	THY
Interface Order Code	3007960
Legacy Code	THY
Notes	Updates to reference range and canned message. Please see attached example report.
Required Testing Changes	
Reference Range	Thyroglobulin Antibodies: <4.0 IU/mL **Thyroglobulin:** **Intact thyroid: 1.6-50.0 ng/mL** **Athyrotic, post-thyroidectomy (tumor marker): <0.1 ng/mL**

Warde Medical Laboratory

LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT
WX0000003039 M 12/05/1988 33 Y

Immunochemistry

Collected: 04/29/2022 07:22 Received: 04/29/2022 07:22

Test Name	Result	Flag	Ref-Ranges	Units	Site
Thyroglobulin and Anti-Thyroglobulin Antibody Panel					
Anti-thyroglobulin Antibody	**23**	**H**	<4	IU/mL	WMRL

According to the reagent manufacturer, consumption of biotin supplements, or multivitamins containing biotin, may interfere with the results of this assay. For individuals taking biotin-containing supplements, testing at least three days after cessation of supplement consumption is recommended.

Thyroglobulin	44.0		SeeBelow	ng/mL	WMRL

Thyroglobulin Reference Range:
Intact thyroid: 1.6-50.0 ng/mL
Athyrotic, post-thyroidectomy (tumor marker): <0.1 ng/mL

Thyroglobulin antibodies can interfere with the determination of thyroglobulin. If the specimen contains thyroglobulin antibodies, please interpret the thyroglobulin result with caution.

The Beckman Access DXI chemiluminescent immunoassay is used. Results obtained with different assay methods or kits cannot be used interchangeably. Results cannot be interpreted as absolute evidence of the presence or absence of malignant disease.

According to the reagent manufacturer, consumption of biotin supplements, or multivitamins containing biotin, may interfere with the results of this assay. For individuals taking biotin-containing supplements, testing at least three days after cessation of supplement consumption is recommended.

Performing Site:
WMRL: WARDE MEDICAL LABORATORY 300 West Textile Road Ann Arbor MI 48108

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED

D629000000
WX0000003039
Printed D&T: 04/29/22 07:23

Ordered By: CLIENT CLIENT
WX00000000001595

William G. Finn, M.D. - Medical Director
Form: MM RL1

Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Update Existing Test	
Effective Date	6/28/2022
Name	Creatine, Urine, 24 Hour
Code	UCRET
Interface Order Code	3424880
Legacy Code	UCRETINQ
Notes	Updates to stability and LOINC.
Required Testing Changes	
Stability	**Room temperature: 6 hours** **Refrigerated: 24 hours** **Frozen: 6 months**

Result Code	Name	LOINC Code	AOE/Prompt[2]
3424900	Total Volume	19153-6	**Yes**
3424905	Hours Collected	30211-7	**Yes**
3424930	Creatinine, Urine	14683-7	No
3424915	Creatine, Urine	**34275-8**	No
3424920	Creatine, 24-Hour Urine	2150-1	No

Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Update Existing Test			
Effective Date	6/28/2022		
Name	25-hydroxy Vitamin D		
Code	VITD		
Interface Order Code	1007180		
Legacy Code	VITD25H		
Notes	Updates to specimen preparation, stability, methodology, reference range, performing days, TAT and performing location.		
Required Testing Changes			
Specimen Required	*Patient Preparation:* **Fasting preferred, but not required.** *Collect:* Serum separator tube (SST) *Specimen Preparation:* Centrifuge, separate serum from cells and send 0.8 mL serum in screw capped plastic vial. *Minimum Volume:* 0.5 mL *Transport Temperature:* Refrigerated		
Stability	**Room temperature: 7 days** **Refrigerated: 7 days** **Frozen: 28 days**		
Performed Days	**Sunday - Saturday**		
Performing Location	**Quest SJC**		
Turnaround Time	**3 - 5 days**		
Result Code	**Name**	**LOINC Code**	**AOE/Prompt[2]**
1007180	25-hydroxy Vitamin D	**1989-3**	No

Warde Medical Laboratory

LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT
WX0000003039 M 12/05/1988 33 Y

Immunochemistry

Collected: 05/26/2022 17:17 Received: 05/26/2022 17:17

Test Name	Result	Flag	Ref-Ranges	Units	Site
25-hydroxy Vitamin D	45		30-100	ng/mL	QDRL

```
Vitamin D Status          25-OH Vitamin D:

Deficiency:                     <20 ng/mL
Insufficiency:              20 - 29 ng/mL
Optimal:                  > or = 30 ng/mL

For 25-OH Vitamin D testing on patients on
D2-supplementation and patients for whom quantitation
of D2 and D3 fractions is required, the QuestAssureD(TM)
25-OH VIT D, (D2,D3), LC/MS/MS is recommended: order
code 92888 (patients >2yrs).
See Note 1

Note 1

For additional information, please refer to
http://education.QuestDiagnostics.com/faq/FAQ199
(This link is being provided for informational/
educational purposes only.)

TEST PERFORMED AT:
QUEST DIAGNOSTICS NICHOLS VALENCIA
27027 TOURNEY ROAD VALENCIA, CA 91355-5386
THOMAS MCDONALD,MD
```

Performing Site:
QDRL: QUEST DIAGNOSTICS REFERENCE LAB VALENCIA 27027 Tourney Road Valencia CA 91355

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED

D726000014
WX0000003039
Printed D&T: 05/26/22 17:18

Ordered By: CLIENT CLIENT
WX00000000001595

William G. Finn, M.D. - Medical Director
Form: MM RL1

Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Update Existing Test	
Effective Date	6/1/2022
Name	Lead-ZPP Industrial
Code	ZPPI
Interface Order Code	1001560
Legacy Code	LAZPPIE
Notes	Update to reference range and canned message .
Required Testing Changes	
Reference Range	COMPONENTS REFERENCE INTERVAL **Lead, Whole Blood < 6 years: <3.5 µg/dL** Lead, Whole Blood >= 6 years: <5.0 µg/dL Zinc Protoporphyrin (ZPP) Whole Blood: 0 - 69 µmol/mol heme Zinc Protoporphyrin (ZPP) Whole Blood: 0 - 40 µg/dL T**hese results should be interpreted in the context of OSHA,** **CDC, and local and state occupational health requirements. Additional information is available through the following link:** **https://www.cdc.gov/niosh/topics/ables/description.html** **For occupational exposure to lead, OSHA requires ZPP whole** **blood concentration to be reported in units of ug/dL. For adults, conversion of ZPP to units of ug/dL assumes a hemoglobin level of 15 g/dL.** **Methodology used in lead analysis is atomic absorption.** **Methodology used for ZPP is Protofluor Z system manufactured by Helena Laboratories. This test has been modified from the manufacturer's instructions.** **Elevated results may be due to skin or collection-related contamination, including the use of a noncertified lead-free tube,or transfer of sample into a noncertified lead-free tube. If contamination concerns exist due to elevated levels of blood lead, confirmation with a venous specimen collected in a certified lead-free tube is recommended.** **The Blood Lead test was developed and the performance characteristics determined by Warde Medical Laboratory. It has not been cleared or approved by the FDA. The laboratory is regulated under CLIA as qualified to perform high-complexity testing. This test is used for patient testing purposes. It should not be regarded as investigational or for research.**

LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT
WX0000003735 M 04/12/2022

Collected: 05/26/2022 17:21 Received: 05/26/2022 17:21

Lead-ZPP Industrial

Test Name	Result	Flag	Ref-Ranges	Units	Site
Lead	<0.5		<3.5	ug/dL	WMRL
ZPP umol/MOL HEME	65		0-69	umol/mol heme	WMRL
ZPP ug/dL	38		0-40	ug/dL	WMRL

These results should be interpreted in the context of OSHA, CDC, and local and state occupational health requirements. Additional information is available through the following link:

https://www.cdc.gov/niosh/topics/ables/description.html

For occupational exposure to lead, OSHA requires ZPP whole blood concentration to be reported in units of ug/dL. For adults, conversion of ZPP to units of ug/dL assumes a hemoglobin level of 15 g/dL.

Methodology used in lead analysis is atomic absorption.

Methodology used for ZPP is Protofluor Z system manufactured by Helena Laboratories. This test has been modified from the manufacturer's instructions.

Elevated results may be due to skin or collection-related contamination, including the use of a noncertified lead-free tube,or transfer of sample into a noncertified lead-free tube. If contamination concerns exist due to elevated levels of blood lead, confirmation with a venous specimen collected in a certified lead-free tube is recommended.

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Performing Site:
WMRL: Warde Medical Laboratory 300 West Textile Road Ann Arbor MI 48108 (800)876-6522

Warde Medical Laboratory

LABORATORY REPORT

QC ACCOUNT (WARDE)
300 W. TEXTILE
ANN ARBOR MI 48108

EXAMPLE, REPORT
WX0000003481 F 12/08/1988

Collected: 05/26/2022 17:21 Received: 05/26/2022 17:21

Lead-ZPP Industrial

Test Name	Result	Flag	Ref-Ranges	Units	Site
Lead	5.2	H	<5.0	ug/dL	WMRL
ZPP umol/MOL HEME	54		0-69	umol/mol heme	WMRL
ZPP ug/dL	32		0-40	ug/dL	WMRL

These results should be interpreted in the context of OSHA, CDC, and local and state occupational health requirements. Additional information is available through the following link:

https://www.cdc.gov/niosh/topics/ables/description.html

For occupational exposure to lead, OSHA requires ZPP whole blood concentration to be reported in units of ug/dL. For adults, conversion of ZPP to units of ug/dL assumes a hemoglobin level of 15 g/dL.

Methodology used in lead analysis is atomic absorption.

Methodology used for ZPP is Protofluor Z system manufactured by Helena Laboratories. This test has been modified from the manufacturer's instructions.

Elevated results may be due to skin or collection-related contamination, including the use of a noncertified lead-free tube,or transfer of sample into a noncertified lead-free tube. If contamination concerns exist due to elevated levels of blood lead, confirmation with a venous specimen collected in a certified lead-free tube is recommended.

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Performing Site:
WMRL: Warde Medical Laboratory 300 West Textile Road Ann Arbor MI 48108 (800)876-6522

Warde Medical Laboratory

TEST DIRECTORY UPDATE

JUNE 2022

Inactivate Test Without Replacement	
Effective Date	6/1/2022
Name	Giardia lamblia IgG Ab
Code	GLAMB
Legacy Code	GLAMAB
Interface Code	3503010
Notes	Suggested replacement is GLAG [3715150] - Giardia AG, EIA, STOOL.