

Update Summary

Inactivate Test With Replacement	10/21/2025	<u>CHRMS - "Chromium, Serum" replaced by CHRMP - "Chromium, Serum/Plasma"</u>
Inactivate Test With Replacement	10/21/2025	<u>COPS - "Copper" replaced by COPP - "Copper, Serum/Plasma"</u>
Inactivate Test With Replacement	10/21/2025	<u>SELS - "Selenium" replaced by SELP - "Selenium, Serum/Plasma"</u>
Inactivate Test With Replacement	10/21/2025	<u>ZINC - "Zinc, Plasma" replaced by ZINCP - "Zinc, Serum/Plasma"</u>

Inactivate Test With Replacement

Effective Date	10/21/2025
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Inactivated Test

Name	Chromium, Serum
Code	CHRMS
Legacy Code	CHRMQ
Interface Order Code	3422860

Replacement Test

Name	Chromium, Serum/Plasma
Code	CHRMP
CPT Code(s)	82495
Notes	New York DOH Approval Status: No

Specimen Requirements

Specimen Required	<i>Collect:</i> Dark blue trace element no additive <i>Specimen Preparation:</i> Centrifuge, separate serum from cells within 2 hours by carefully pouring 2.0 mL serum into a screw capped plastic vial. Do not pipette serum or plasma. Do not ream with wooden stick. <i>Minimum Volume:</i> 1.0 mL <i>Transport Temperature:</i> Refrigerated
Alternate Specimen	Plasma: Dark blue trace element EDTA
Rejection Criteria	Gross hemolysis, Gel barrier tubes, serum or plasma not separated from cells within 2 hours.
Stability	Room temperature: 7 days Refrigerated: 14 days Frozen: 30 days

Performing Information

Methodology	Inductively Coupled Plasma/Mass Spectrometry (ICP/MS)
Reference Range	<0.08 µg/dL
Performed Days	Monday - Friday
Turnaround Time	2 - 5 days

Performing Laboratory	Warde Medical Laboratory
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Interface Information

Legacy Code	CHRMP		
Interface Order Code	3000429		
Result Code	Name	LOINC Code	AOE/Prompt
3000429	Chromium, Serum/Plasma	5622-6	No



LABORATORY REPORT

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

EXAMPLE, REPORT

WX0000000237 F 12/05/1988

Collected: 09/18/2025 08:18 Received: 09/18/2025 08:18

Test Name	Result	Flag	Ref-Ranges	Units	Site
Chromium, Serum/Plasma	<0.08		<0.08	ug/dL	WMRL

Elevated results may be due to sample collected in a non-certified trace element-free tube.

This 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

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL,

Report Date: 09/18/2025 08:22

E118000005 Ordered By: CLIENT C CLIENT, MD

WMB-25-3519

WX0000000237 WX000000000000336

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Kajal V. Sitwala, MD, PhD - Medical Director

Inactivate Test With Replacement

Effective Date	10/21/2025
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Inactivated Test

Name	Copper
Code	COPS
Legacy Code	COPS
Interface Order Code	1004750

Replacement Test

Name	Copper, Serum/Plasma
Code	COPP
CPT Code(s)	82525
Notes	New York DOH Approval Status: No

Specimen Requirements

Specimen Required	<i>Collect:</i> Dark blue trace element no additive <i>Specimen Preparation:</i> Centrifuge, separate serum from cells within 2 hours by carefully pouring 2.0 mL serum into a screw capped plastic vial. Do not pipette serum or plasma. Do not ream with wooden stick. <i>Minimum Volume:</i> 1.0 mL <i>Transport Temperature:</i> Refrigerated
Alternate Specimen	Plasma: Dark blue trace element EDTA
Rejection Criteria	Gross hemolysis, Gel barrier tubes, serum or plasma not separated from cells within 2 hours.
Stability	Room temperature: 7 days Refrigerated: 14 days Frozen: 30 days

Performing Information

Methodology	Inductively Coupled Plasma/Mass Spectrometry (ICP/MS)
Reference Range	Male: 70 - 40 µg/dL Female: 70 - 160 µg/dL
Performed Days	Monday - Friday
Turnaround Time	2 - 5 days

Performing Laboratory	Warde Medical Laboratory
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Interface Information

Legacy Code	COPP		
Interface Order Code	3000426		
Result Code	Name	LOINC Code	AOE/Prompt
3000426	Copper, Serum/Plasma	5631-7	No



LABORATORY REPORT

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

EXAMPLE, REPORT

WX0000000237 F 12/05/1988

Collected: 09/18/2025 08:17 Received: 09/18/2025 08:17

Test Name	Result	Flag	Ref-Ranges	Units	Site
Copper, Serum/Plasma	75.00		70.0-160.0		WMRL

Copper values may be elevated to twice the normal levels in pregnancy.

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

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL,

Report Date: 09/18/2025 08:22

E118000003 Ordered By: CLIENT C CLIENT, MD

WMB-25-3517

WX0000000237 WX000000000000336

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Kajal V. Sitwala, MD, PhD - Medical Director

Inactivate Test With Replacement

Effective Date	10/21/2025
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Inactivated Test

Name	Selenium
Code	SELS
Legacy Code	SELSP
Interface Order Code	3706520

Replacement Test

Name	Selenium, Serum/Plasma
Code	SELP
CPT Code(s)	84255
Notes	New York DOH Approval Status: No

Specimen Requirements

Specimen Required	<p><i>Collect:</i> Dark blue trace element no additive</p> <p><i>Specimen Preparation:</i> Centrifuge, separate serum from cells within 2 hours by carefully pouring 2.0 mL serum into a screw capped plastic vial. Do not pipette serum or plasma. Do not ream with wooden stick.</p> <p><i>Minimum Volume:</i> 1.0 mL</p> <p><i>Transport Temperature:</i> Refrigerated</p>
Alternate Specimen	Plasma: Dark blue trace element EDTA
Rejection Criteria	Gross hemolysis, Gel barrier tubes, serum or plasma not separated from cells within 2 hours.
Stability	<p>Room temperature: 7 days</p> <p>Refrigerated: 14 days</p> <p>Frozen: 30 days</p>

Performing Information

Methodology	Inductively Coupled Plasma/Mass Spectrometry (ICP/MS)
Reference Range	5.0 - 7.0 µg/dL
Performed Days	Monday - Friday
Turnaround Time	2 - 5 days
Performing Laboratory	Warde Medical Laboratory

Interface Information

Legacy Code	SELP		
Interface Order Code	3000421		
Result Code	Name	LOINC Code	AOE/Prompt
3000421	Selenium, Serum/Plasma	5724-0	No



LABORATORY REPORT

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

EXAMPLE, REPORT

WX0000000158 M 07/08/1968

Collected: 09/18/2025 08:18 Received: 09/18/2025 08:18

Test Name	Result	Flag	Ref-Ranges	Units	Site
Selenium, Serum/Plasma	5.00		5.0-7.0	ug/dL	WMRL

Elevated results may be due to sample collected in a non-certified trace element-free tube.

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

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL,

Report Date: 09/18/2025 08:22

E118000006 Ordered By: CLIENT C CLIENT, MD

WMB-25-3520

WX0000000158 WX000000000000260

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Kajal V. Sitwala, MD, PhD - Medical Director

Inactivate Test With Replacement

Effective Date	10/21/2025
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Inactivated Test

Name	Zinc, Plasma
Code	ZINC
Legacy Code ¹	ZINC
Interface Order Code	1004900

Replacement Test

Name	Zinc, Serum/Plasma
Code	ZINCP
CPT Code(s)	84630
Notes	New York DOH Approval Status: No

Specimen Requirements

Specimen Required	Collect: Dark blue trace element no additive <i>Specimen Preparation:</i> Centrifuge, separate serum from cells within 2 hours by carefully pouring 2.0 mL serum into a screw capped plastic vial. Do not pipette serum or plasma. Do not ream with wooden stick. <i>Minimum Volume:</i> 1.0 mL <i>Transport Temperature:</i> Refrigerated
Alternate Specimen	Plasma: Dark blue trace element EDTA
Rejection Criteria	Gross hemolysis, Gel barrier tubes, serum or plasma not separated from cells within 2 hours.
Stability	Room temperature: 24 hours Refrigerated: 7 days Frozen: 14 days

Performing Information

Methodology	Inductively Coupled Plasma/Mass Spectrometry (ICP/MS)
Reference Range	50 - 150 µg/dL
Performed Days	Monday - Friday
Turnaround Time	2 - 5 days
Performing Laboratory	Warde Medical Laboratory

Interface Information

Legacy Code	ZINCP		
Interface Order Code	3000418		
Result Code	Name	LOINC Code	AOE/Prompt
3000418	Zinc, Serum/Plasma	5763-8	No



LABORATORY REPORT

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

EXAMPLE, REPORT

WX0000000158 M 07/08/1968

Collected: 09/18/2025 08:17 Received: 09/18/2025 08:17

Test Name	Result	Flag	Ref-Ranges	Units	Site
Zinc, Serum/Plasma	50.00		50.0-150.0	ug/dL	WMRL

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

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL,

Report Date: 09/18/2025 08:22

E118000004 Ordered By: CLIENT C CLIENT, MD

WMB-25-3518

WX0000000158 WX000000000000260

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Kajal V. Sitwala, MD, PhD - Medical Director