

Update Summary		
New Test Activation	2/27/2024	F266E - "Mace IgE"
New Test Activation	2/27/2024	FHIGE - "Fly, Horse (Tabanus spp) IgE"
New Test Activation	2/27/2024	RUPIE - "Rabbit Urine Proteins IgE"
New Test Activation	2/27/2024	STRAT - "Stratify JCV Ab (w/Index) w/Ref to Inhib Assay"
Update Existing Test	2/20/2024	17HPR - "17-Hydroxypregnenolone"
Update Existing Test	2/20/2024	CHROA - "Chromogranin A, Serum"
Update Existing Test	2/5/2024	COPRU - "Copper, Random Urine"
Update Existing Test	2/20/2024	CSFLA - "Lactic Acid, CSF"
Update Existing Test	2/5/2024	CURBC - "Copper RBC"
Update Existing Test	2/19/2024	E1Q - "Estrone"
Update Existing Test	2/19/2024	ESTFL - "Estradiol, Free"
Update Existing Test	2/20/2024	ESTFR - "Estrogen, Fractionated, LC-TMS"
Update Existing Test	2/20/2024	FLUPH - "Fluphenazine (Prolixin)"
Update Existing Test	3/4/2024	KETMS - "Ketamine and Metabolite Serum/Plasma"
Update Existing Test	2/20/2024	LACPL - "Lactic Acid, Plasma"
Update Existing Test	2/20/2024	MEX - "Mexiletine (Mexitil)"
Update Existing Test	2/20/2024	TPHPV - "Cytology, ThinPrep Pap Test and HPV"
Update Existing Test	2/5/2024	UB2M - "Beta 2 Microglobulin, Random Urine"
Update Existing Test	2/20/2024	UHVA - "Homovanillic Acid (HVA), Urine"
Update Existing Test	3/4/2024	UKETA - "Ketamine and Metabolite, Urine"
Update Existing Test	2/20/2024	UVMHA - "VMA and HVA, Urine"
Update Existing Test	2/5/2024	ZNRBC - "Zinc, RBC"
Inactivate Test With Replacement	2/20/2024	ADACT - "Adalimumab Activity and Neutralizing Antibody" replaced by ADABQ - "Adalimumab/Ab to Adalimumab Quantitation"
Inactivate Test With Replacement	2/6/2024	AGAS - "Alpha-galactosidase, Serum" replaced by AGALS - "Alpha-Galactosidase, Serum"
Inactivate Test With Replacement	2/20/2024	BBRUV - "Borrelia burgdorferi VlsE1/pepC10 Ab w Reflex to Immunoblot" replaced by BBUVR - "Borrelia burgdorferi VlsE1/pepC10Ab w Reflex to IgG/M"
Inactivate Test With Replacement	2/27/2024	BIACT - "Bile Acids, Total" replaced by BILAT - "Bile Acids, Total"
Inactivate Test With Replacement	2/6/2024	BIOT - "Biotinidase" replaced by BIOTS - "Biotinidase, Serum"
Inactivate Test With Replacement	2/6/2024	LC1AA - "Liver Cytosol (LC-1) Autoantibodies" replaced by LCA1G - "Liver Cystolic Antigen Type 1 (LC-1) Ab, IgG"
Inactivate Test With Replacement	2/6/2024	NARCO - "Narcolepsy (HLA-DQB1*06:02) Genotyping" replaced by NARCG - "Narcolepsy HLA-DQ Genotyping (HLA-DQB1*06:02)"
Inactivate Test With Replacement	2/5/2024	UCUQ - "Copper 24 Hour Urine" replaced by C24U - "Copper, 24 Hour Urine"

Inactivate Test Without Replacement	2/19/2024	ISOH - "Isohemagglutinin"
Inactivate Test Without Replacement	2/20/2024	ZPYRI - "Pyridinium"

New Test Activation			
Effective Date	2/27/2024		
Name	Mace IgE*		
Code	F266E		
CPT Code(s)	86003		
Notes	New Test Activation New York DOH Approval Status: Yes		
Specimen Requirements			
Specimen Required	Collect: Red top Specimen Preparation: Centrifuge, separate serum from cells and send 1.0 mL serum in a screw capped plastic vial. Minimum Volume: 0.5 mL Transport Temperature: Refrigerated		
Alternate Specimen	Serum separator tube (SST)		
Rejection Criteria	Lipemic specimens		
Stability	Room temperature: 4 weeks Refrigerated: 4 weeks Frozen: 2 months		
Performing Information			
Methodology	Fluorimetric Enzyme-linked Immunoassay (FEIA)		
Reference Range	See Report		
Performed Days	Monday - Friday		
Turnaround Time	3 - 5 days		
Performing Laboratory	Viracor Eurofins		
Interface Information			
Legacy Code	F266E		
Interface Order Code	3300324		
Result Code	Name	LOINC Code	AOE/Prompt ²
3300326	Mace IgE	15280-1	No
3300327	Mace IgE Class	51553-6	No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003826 F 12/05/1988 35 Y

Referral Testing

Collected: 01/17/2024 08:59 Received: 01/17/2024 08:59

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Mace IgE*, 0.10, <0.35, kU/L, VIRL. Row 2: Mace IgE Class, 0/1, VIRL.

The test method is the Phadia ImmunoCAP allergen-specific IgE system. CLASS INTERPRETATION <0.10 kU/L= 0, Negative; 0.10 - 0.34 kU/L= 0/1, Equivocal/Borderline; 0.35 - 0.69 kU/L=1, Low Positive; 0.70 - 3.49 kU/L=2, Moderate Positive; 3.50 - 17.49 kU/L=3, High Positive; 17.50 - 49.99 kU/L= 4, Very High Positive; 50.00 - 99.99 kU/L= 5, Very High Positive; >99.99 kU/L=6, Very High Positive
*This test was developed and its performance characteristics determined by Eurofins Viracor. It has not been cleared or approved by the U.S. Food and Drug Administration.

Testing Performed At:
Eurofins Viracor, LLC
18000 W. 99th Street, Suite 10
Lenexa, KS 66219
Lab Director: Brock Neil, PhD BCLD (ABB)
CLIA # 26D-0983643
FLAG Interpretation: A = Abnormal, H = High, L = Low

Reported Date: 01/17/2024 08:59 F266E

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

New Test Activation			
Effective Date	2/27/2024		
Name	Fly, Horse (Tabanus spp) IgE*		
Code	FHIGE		
CPT Code(s)	86003		
Notes	New Test Activation New York DOH Approval Status: Yes		
Specimen Requirements			
Specimen Required	<i>Collect:</i> Red top <i>Specimen Preparation:</i> Centrifuge, separate serum from cells and send 1.0 mL serum in a screw capped plastic vial. <i>Minimum Volume:</i> 0.5 mL <i>Transport Temperature:</i> Refrigerated		
Alternate Specimen	Serum separator tube (SST)		
Rejection Criteria	Lipemic specimens		
Stability	Room temperature: 4 weeks Refrigerated: 4 weeks Frozen: 2 months		
Performing Information			
Methodology	Fluorimetric Enzyme-linked Immunoassay (FEIA)		
Reference Range	See Report		
Performed Days	Monday – Friday		
Turnaround Time	3 - 5 days		
Performing Laboratory	Viracor Eurofins		
Interface Information			
Legacy Code	FHIGE		
Interface Order Code	3300321		
Result Code	Name	LOINC Code	AOE/Prompt ²
3300322	Horse Fly IgE	6144-0	No
3300323	Horse Fly IgE Class	15717-2	No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 01/17/2024 08:56 Received: 01/17/2024 08:56

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Fly Horse (Tabanus spp) IgE*, Fly Horse IgE, <0.10, <0.35, kU/L, VIRL. Row 2: Fly Horse IgE Class, 0, , , , VIRL.

The test method is the Phadia ImmunoCAP allergen-specific IgE system. CLASS INTERPRETATION <0.10 kU/L= 0, Negative; 0.10 - 0.34 kU/L= 0/1, Equivocal/Borderline; 0.35 - 0.69 kU/L=1, Low Positive; 0.70 - 3.49 kU/L=2, Moderate Positive; 3.50 - 17.49 kU/L=3, High Positive; 17.50 - 49.99 kU/L= 4, Very High Positive; 50.00 - 99.99 kU/L= 5, Very High Positive; >99.99 kU/L=6, Very High Positive *This test was developed and its performance characteristics determined by Eurofins Viracor. It has not been cleared or approved by the U.S. Food and Drug Administration.

Testing Performed At: Eurofins Viracor, LLC 18000 W. 99th Street, Suite 10 Lenexa, KS 66219 Lab Director: Brock Neil, PhD BCLD (ABB) CLIA # 26D-0983643 FLAG Interpretation: A = Abnormal, H = High, L = Low

Reported Date: 01/17/2024 08:56 FHIGE

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

New Test Activation			
Effective Date	2/27/2024		
Name	Rabbit Urine Proteins IgE*		
Code	RUPIE		
CPT Code(s)	86003		
Notes	New Test Activation New York DOH Approval Status: Yes		
Specimen Requirements			
Specimen Required	Collect: Red top Specimen Preparation: Centrifuge, separate serum from cells and send 1.0 mL serum in a screw capped plastic vial. Minimum Volume: 0.5 mL Transport Temperature: Refrigerated		
Alternate Specimen	Serum separator tube (SST)		
Rejection Criteria	Lipemic specimens		
Stability	Room temperature: 4 weeks Refrigerated: 4 weeks Frozen: 2 months		
Performing Information			
Methodology	Fluorimetric Enzyme-linked Immunoassay (FEIA)		
Reference Range	See Report		
Performed Days	Monday - Friday		
Turnaround Time	3 - 5 days		
Performing Laboratory	Viracor Eurofins		
Interface Information			
Legacy Code	RUPIE		
Interface Order Code	3300328		
Result Code	Name	LOINC Code	AOE/Prompt ²
3300329	Rabbit Urine Proteins IgE	10961-1	No
3300331	Rabbit Urine Proteins IgE Class	15973-1	No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 01/17/2024 08:57 Received: 01/17/2024 08:57

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Rabbit Urine Proteins IgE*, 0.25, <0.35, kU/L, VIRL. Row 2: Rabbit Urine Proteins IgE Class, 0/1, VIRL.

The test method is the Phadia ImmunoCAP allergen-specific IgE system. CLASS INTERPRETATION <0.10 kU/L= 0, Negative; 0.10 - 0.34 kU/L= 0/1, Equivocal/Borderline; 0.35 - 0.69 kU/L=1, Low Positive; 0.70 - 3.49 kU/L=2, Moderate Positive; 3.50 - 17.49 kU/L=3, High Positive; 17.50 - 49.99 kU/L= 4, Very High Positive; 50.00 - 99.99 kU/L= 5, Very High Positive; >99.99 kU/L=6, Very High Positive *This test was developed and its performance characteristics determined by Eurofins Viracor. It has not been cleared or approved by the U.S. Food and Drug Administration.

Testing Performed At: Eurofins Viracor, LLC 18000 W. 99th Street, Suite 10 Lenexa, KS 66219 Lab Director: Brock Neil, PhD BCLD (ABB) CLIA # 26D-0983643 FLAG Interpretation: A = Abnormal, H = High, L = Low

Reported Date: 01/17/2024 08:58 RUIPE

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

New Test Activation			
Effective Date	2/27/2024		
Name	Stratify JCV Ab (w/Index) w/Ref to Inhib Assay		
Code	STRAT		
CPT Code(s)	86711		
Notes	New Test Activation New York DOH Approval Status: Yes		
Specimen Requirements			
Specimen Required	Collect: Serum Separator Tube (SST) Specimen Preparation: Centrifuge, separate serum from cells and send 1.0 mL serum in a screw capped plastic vial. Minimum Volume: 0.5 mL Transport Temperature: Refrigerated		
Alternate Specimen	Plasma: Lavender EDTA		
Rejection Criteria	Gross hemolysis, Grossly lipemic, Grossly icteric		
Stability	Room temperature: 7 days Refrigerated: 14 days Frozen: 90 days		
Performing Information			
Methodology	Immunoassay		
Reference Range	Negative		
Performed Days	Monday - Saturday		
Turnaround Time	4 - 8 days		
Performing Laboratory	Quest SJC		
Interface Information			
Legacy Code	STRAT		
Interface Order Code	3400812		
Result Code	Name	LOINC Code	AOE/Prompt ²
3400813	Index Value	100977-8	No
3400814	JCV Antibody	70173-0	No
3400828	Stratify JCV Antibody Inhibition Assay	70173-0	No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003826 F 12/05/1988 35 Y

Referral Testing

Collected: 01/17/2024 08:54 Received: 01/17/2024 08:54

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Stratify JCV Ab (w/Index) w/Ref to Inhib Assay, 0.35, H, QCRL. Row 2: JCV Antibody, INDETERMINATE, AB, QCRL.

See Inhibition Assay result below for the final antibody result.

Index interpretive criteria:
<0.20 negative
0.20-0.40 indeterminate
>0.40 positive

INTERPRETATION

Negative: Antibodies to JCV not detected.

Indeterminate: Low level reactivity detected, see Inhibition Assay result below for the final antibody result.

Positive: Antibodies to JC virus (JCV) detected indicating the patient has been exposed to JCV at an undetermined time.

The STRATIFY JCV Antibody Test is an enzyme-linked immunosorbent assay (ELISA) designed to detect JCV antibodies to help identify individuals who have been exposed to the virus. Samples with low level reactivity in the detection assay are retested in a confirmation (inhibition) assay to confirm presence or absence of JCV-specific antibodies.

Retrospective analyses of post marketing data from various sources, including observational studies and spontaneous reports obtained worldwide, suggest that the risk of developing PML may be associated with relative levels of serum anti-JCV antibody as measured by anti-JCV antibody index.1

1TYSABRI (natalizumab)US Prescribing Information

Test Performed at:
Quest Diagnostics Nichols Institute
33608 Ortega Highway

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



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003826 F 12/05/1988 35 Y

Referral Testing

Collected: 01/17/2024 08:54 Received: 01/17/2024 08:54

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Stratify JCV Antibody Inhibition Assay, FINAL RSLT: POSITIVE, AB, , , QCRL

REFERENCE RANGE: NEGATIVE

INTERPRETATION

Positive: Antibodies to JC virus (JCV) detected
indicating the patient has been exposed
to JCV at an undetermined time
Negative: Antibodies to JCV not detected
Test Performed at:
Quest Diagnostics Nichols Institute
33608 Ortega Highway

Reported Date: 01/17/2024 08:55 STRAT

Performing Site:

QCRL: QUEST DIAGNOSTICS REFERENCE LAB CAPISTRANO 33608 Ortega Highway San Juan Capistrano CA 92675

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

F717000007
WX0000003826
Printed D&T: 01/17/24 08:55

Ordered By: KAJAL SITWALA, MD, PhD
WX00000000002353

Kajal V. Sitwala, MD, PhD - Medical Director
Form: MM RL1
PAGE 2 OF 2

Update Existing Test	
Effective Date	2/20/2024
Name	17-Hydroxypregnenolone
Code	17HPR
Interface Order Code	3684940
Legacy Code	17OHPREA
Notes	Update to turnaround time.
Required Testing Changes	
Turnaround Time	3 - 7 days

Update Existing Test	
Effective Date	2/20/2024
Name	Chromogranin A, Serum
Code	CHROA
Interface Order Code	3420100
Legacy Code	CHROMAQ
Notes	Update to stability and reference range.
Required Testing Changes	
Stability	Room temperature: 48 hours Refrigerated: 3 days Frozen: 3 months
Reference Range	0 - 187 ng/mL

Update Existing Test	
Effective Date	2/5/2024
Name	Copper, Random Urine
Code	COPRU
Interface Order Code	3700000
Legacy Code	COPRU
Notes	Update to performing laboratory.
Required Testing Changes	
Performing Laboratory	Quest SJC

Update Existing Test	
Effective Date	2/20/2024
Name	Lactic Acid, CSF
Code	CSFLA
Interface Order Code	3504190
Legacy Code	CSFLAC
Notes	Update to rejection criteria and stability.
Required Testing Changes	
Rejection Criteria	Hemolyzed specimen.
Stability	After separation from cellular material: Room temperature: 2 hours Refrigerated: 3 days Frozen: 4 months One freeze/thaw cycle is acceptable

Update Existing Test	
Effective Date	2/5/2024
Name	Copper RBC
Code	CURBC
Interface Order Code	3711640
Legacy Code	COPBLSP
Notes	Update to performing laboratory.
Required Testing Changes	
Performing Laboratory	Quest SJC

Update Existing Test	
Effective Date	2/19/2024
Name	Estrone
Code	E1Q
Interface Order Code	3400039
Legacy Code	E1Q
Notes	Update to stability.
Required Testing Changes	
Stability	Room temperature: 72 hours Refrigerated: 30 days Frozen: 1 year

Update Existing Test	
Effective Date	2/19/2024
Name	Estradiol, Free
Code	ESTFL
Interface Order Code	3400086
Legacy Code	ESTFL
Notes	Update to rejection criteria.
Required Testing Changes	
Rejection Criteria	Serum separator tube (SST); hemolysis; grossly icteric

Update Existing Test	
Effective Date	2/20/2024
Name	Estrogen, Fractionated, LC-TMS
Code	ESTFR
Interface Order Code	3685650
Legacy Code	ESTRFARP
Notes	Update to turnaround time.
Required Testing Changes	
Turnaround Time	3 - 7 days

Update Existing Test	
Effective Date	2/20/2024
Name	Fluphenazine (Prolixin)
Code	FLUPH
Interface Order Code	3502860
Legacy Code	FLUPHEN
Notes	Update to turnaround time.
Required Testing Changes	
Turnaround Time	3 - 10 days

Update Existing Test	
Effective Date	3/4/2024
Name	Ketamine and Metabolite Serum/Plasma
Code	KETMS
Interface Order Code	3301320
Legacy Code	KETMS
Notes	Update to specimen requirement and methodology
Required Testing Changes	
Specimen Required	<p><i>Collect:</i> Red top <i>Specimen Preparation:</i> Separate serum from cells and send 2.0 mL serum in a screw capped plastic vial. <i>Minimum Volume:</i> 1.0 mL <i>Transport Temperature:</i> Refrigerated</p>
Methodology	Liquid Chromatography - Tandem Mass Spectrometry (LC/MS/MS)

Update Existing Test	
Effective Date	2/20/2024
Name	Lactic Acid, Plasma
Code	LACPL
Interface Order Code	3600036
Legacy Code	LACPL
Notes	Update to rejection criteria.
Required Testing Changes	
Rejection Criteria	Hemolyzed, EDTA, citrate, or iodoacetate as anticoagulants. Tubes less than half full.

Update Existing Test	
Effective Date	2/20/2024
Name	Mexiletine (Mexitil)
Code	MEX
Interface Order Code	3505000
Legacy Code	MEX
Notes	Update to turnaround time.
Required Testing Changes	
Turnaround Time	3 - 10 days

Update Existing Test	
Effective Date	2/20/2024
Name	Cytology, ThinPrep Pap Test and HPV
Code	TPHPV
Interface Order Code	3662100
Legacy Code	TPHPV
Notes	Update to CPT4 code.
Required Testing Changes	
CPT Code(s)	Varies

Update Existing Test	
Effective Date	2/5/2024
Name	Beta 2 Microglobulin, Random Urine
Code	UB2M
Interface Order Code	3719360
Legacy Code	UB2MSP
Notes	Update to performing laboratory
Required Testing Changes	
Performing Laboratory	Quest SJC

Update Existing Test	
Effective Date	2/20/2024
Name	Homovanillic Acid (HVA), Urine
Code	UHVA
Interface Order Code	3686400
Legacy Code	UHVARP
Notes	Update to turnaround time
Required Testing Changes	
Turnaround Time	3 - 7 days

Update Existing Test	
Effective Date	3/4/2024
Name	Ketamine and Metabolite, Urine
Code	UKETA
Interface Order Code	3301360
Legacy Code	UKETA
Notes	Update to methodology.
Required Testing Changes	
Methodology	Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)

Update Existing Test	
Effective Date	2/20/2024
Name	VMA and HVA, Urine
Code	UVMHA
Interface Order Code	3686500
Legacy Code	UVMHVARP
Notes	Update to turnaround time.
Required Testing Changes	
Turnaround Time	3 - 7 days

Update Existing Test	
Effective Date	2/5/2024
Name	Zinc, RBC
Code	ZNRBC
Interface Order Code	3711650
Legacy Code	ZINCRBCSP
Notes	Update to stability, performing laboratory.
Required Testing Changes	
Stability	Room temperature: 7 days Refrigerated: 10 days Frozen: Unacceptable
Performing Laboratory	Quest SJC

Inactivate Test With Replacement			
Effective Date	2/20/2024		
Inactivated Test			
Name	Adalimumab Activity and Neutralizing Antibody		
Code	ADACT		
Legacy Code	ADACT		
Interface Order Code	3618440		
Replacement Test			
Name	Adalimumab/Ab to Adalimumab Quantitation		
Code	ADABQ		
CPT Code(s)	80145, 83520		
Notes	New York DOH Approval Status: No		
Specimen Requirements			
Specimen Required	<p><i>Patient Preparation:</i> Collect specimens prior to Adalimumab treatment. Avoid exposure to biotin (Vitamin B7) for 12 hours prior to specimen collection.</p> <p><i>Collect:</i> Serum separator tube (SST)</p> <p><i>Specimen Preparation:</i> Centrifuge, separate serum from cells as soon as possible or within 2 hours of collection and send 1.0 mL serum in a screw capped plastic vial.</p> <p><i>Minimum Volume:</i> 0.1 mL</p> <p><i>Transport Temperature:</i> Refrigerated</p>		
Rejection Criteria	Grossly hemolyzed, icteric or lipemic specimens		
Stability	Room temperature: 2 days Refrigerated: 14 days Frozen: 1 month Avoid repeated freeze/thaw cycles.		
Performing Information			
Methodology	Quantitative Electrochemiluminescent Immunoassay		
Reference Range	Adalimumab Quantitation: 0.4 ug/mL or greater Antibodies to Adalimumab Quantitation: 19 ng/mL or less		
Performed Days	Sunday - Saturday		
Turnaround Time	5 - 9 days		
Performing Laboratory	ARUP Reference Laboratory		
Interface Information			
Legacy Code	ADABQ		
Interface Order Code	3600373		
Result Code	Name	LOINC Code	AOE/Prompt²
3600374	Adalimumab Quantitation	86894-3	No
3600376	Antibodies to Adalimumab Quantitation	86895-0	No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003826 F 12/05/1988 35 Y

Referral Testing

Collected: 01/17/2024 08:55 Received: 01/17/2024 08:55

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Adalimumab Quantitation, 5.0, >=0.4, ug/mL, ARRL

INTERPRETIVE INFORMATION: Adalimumab Quantitation

Results of 0.4 ug/mL or higher indicate the detection of adalimumab or an adalimumab biosimilar. Therapeutic level may vary depending on the disease being treated.

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Antibodies to Adalimumab Quantitation, 25, H, <=19, ng/mL, ARRL

INTERPRETIVE INFORMATION: Antibodies to Adalimumab Quantitation

Results of 20 ng/mL or higher indicate the detection of antibodies against adalimumab or an adalimumab biosimilar. Interpret in the context of adalimumab or adalimumab biosimilar trough concentration to determine clinical significance and impact on treatment efficacy.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.

Performed By: ARUP Laboratories
500 Chipeta Way
Salt Lake City, UT 84108
Laboratory Director: Jonathan R. Genzen, MD, PhD
CLIA Number: 46D0523979

Reported Date: 01/17/2024 08:55 ADABQ

Performing Site:
ARRL: ARUP REFERENCE LAB 500 Chipeta Way Salt Lake City UT 841081221

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

Inactivate Test With Replacement			
Effective Date	2/6/2024		
Inactivated Test			
Name	Alpha-galactosidase, Serum		
Code	AGAS		
Legacy Code	AGASM		
Interface Order Code	3805600		
Replacement Test			
Name	Alpha-Galactosidase, Serum		
Code	AGALS		
CPT Code(s)	82657		
Notes	New York DOH Approval Status: Yes		
Specimen Requirements			
Specimen Required	<p><i>Collect:</i> Serum separator tube (SST) <i>Specimen Preparation:</i> Centrifuge, separate serum from cells and send 2.0 mL serum in a screw capped plastic vial. Sex of patient is required for interpretation. <i>Minimum Volume:</i> 0.2 mL <i>Transport Temperature:</i> Frozen</p>		
Alternate Specimen	Serum: Red top		
Rejection Criteria	Gross hemolysis, gross lipemia, gross icterus		
Stability	Room temperature: Unacceptable Refrigerated: 24 hours Frozen: 14 days		
Performing Information			
Methodology	Alpha-galactosidase is a lysosomal enzyme active at an acidic pH. The enzyme hydrolyzes artificial substrates such as 4-methylumbelliferyl and alpha-D galactopyranoside. The 4-methylumbelliferone liberated is measured by fluorometry.		
Reference Range	0.074 - 0.457 U/L Note: Results from this assay are not useful for carrier determination. Carriers usually have levels in the normal range.		
Performed Days	Tuesday, Friday		
Turnaround Time	6 - 10 days		
Performing Laboratory	Mayo Clinic Laboratories		
Interface Information			
Legacy Code	AGALS		
Interface Order Code	3800353		
Result Code	Name	LOINC Code	AOE/Prompt ²
3800354	Alpha-Galactosidase S	1813-5	No
3800356	Interpretation	59462-2	No
3800357	Reviewed By	18771-6	No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 01/17/2024 08:48 Received: 01/17/2024 08:48

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Alpha-Galactosidase S, 0.085, U/L, 0.074-0.457, MMRL. Row 2: Interpretation, SEE BELOW, MMRL.

NEGATIVE In this sample, the activity of alpha-galactosidase is normal. These results indicate that this individual is NOT affected with Fabry disease.

-----ADDITIONAL INFORMATION-----
Fluorometric Enzyme Assay
This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

Reviewed By SEE BELOW MMRL

RESULT: Rebecca Billings

Test Performed by:
Mayo Clinic Laboratories - Rochester Main Campus
200 First Street SW, Rochester, MN 55905
Lab Director: William G. Morice M.D. Ph.D.; CLIA# 24D0404292

Reported Date: 01/17/2024 08:48 AGALS

Performing Site:
MMRL: MAYO MEDICAL REFERENCE LAB 3050 Superior Drive NW Rochester MN 55901

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

Inactivate Test With Replacement			
Effective Date	2/20/2024		
Inactivated Test			
Name	Borrelia burgdorferi VlsE1/pepC10 Ab w Reflex to Immunoblot		
Code	BBRUV		
Legacy Code	BBRUV		
Interface Order Code	3600296		
Replacement Test			
Name	Borrelia burgdorferi VlsE1/pepC10Ab w Reflex to IgG/M		
Code	BBUVR		
CPT Code(s)	86618 if reflexed add 86617 x 2 at additional cost		
Notes	New York DOH Approval Status: Yes		
Specimen Requirements			
Specimen Required	<i>Collect:</i> Serum separator tube (SST) <i>Specimen Preparation:</i> Centrifuge, separate serum from cells. Send 2.0 mL in a screw capped plastic vial. <i>Minimum Volume:</i> 0.2 mL <i>Transport Temperature:</i> Refrigerated		
Alternate Specimen	Serum: Red top		
Rejection Criteria	Plasma, cerebrospinal fluid (CSF), contaminated, heat-inactivated, hemolyzed, icteric, or lipemic specimens		
Stability	Room temperature: 48 hours Refrigerated: 10 days Frozen: 1 month		
Performing Information			
Methodology	Semi-quantitative Enzyme-Linked Immunosorbent Assay/Qualitative Immunoblot		
Reference Range	.90 IV or less: Negative VlsE1 and pepC10 antibodies to B. burgdorferi not detected. 0.91 - 1.09 IV: Equivocal - Repeat testing in 10 - 14 days may be helpful. 1.10 IV or greater: Positive - VlsE1 and pepC10 antibodies to B. Burgdorferi detected.		
Performed Days	Monday - Friday		
Turnaround Time	3 - 6 days		
Performing Laboratory	ARUP Reference Laboratory		
Interface Information			
Legacy Code	BBUVR		
Interface Order Code	3600367		
Result Code	Name	LOINC Code	AOE/Prompt ²
3600368	B. burgdorferi VlsE1/pepC10 Abs, ELISA	100711-1	No
3600369	B. burgdorferi IgG Immunoblot	6320-6	No
3600371	B. burgdorferi Antibody IgM Immunoblot	6321-4	No
3600372	Lyme Standard 2-Tier Testing Interp	62342-1	No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 01/17/2024 08:53 Received: 01/17/2024 08:53

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Borrelia burgdorferi VlsE1/pepC10Ab w Reflex to IgG/M, B. burgdorferi VlsE1/pepC10 Abs, ELISA, 1.25, H, <=0.90, IV, ARRL

REFERENCE INTERVAL: B. burgdorferi VlsE1/pepC10 Abs, ELISA

0.90 IV or less.....Negative: VlsE1 and pepC10 antibodies to B. burgdorferi not detected.

0.91 - 1.09 IV.....Equivocal: Repeat testing in 10-14 days may be helpful.

1.10 IV or greater.....Positive: VlsE1 and pepC10 antibodies to B. burgdorferi detected.

Performed By: ARUP Laboratories
500 Chipeta Way
Salt Lake City, UT 84108
Laboratory Director: Jonathan R. Genzen, MD, PhD
CLIA Number: 46D0523979

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: B. burgdorferi IgG Immunoblot, Positive, AB, Negative, ARRL

INTERPRETIVE INFORMATION: B. burgdorferi IgG Immunoblot

For this assay, a positive result is reported when any 5 or more of the following 10 bands are present: 18, 23, 28, 30, 39, 41, 45, 58, 66, or 93 kDa. All other banding patterns are reported as negative.

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: B. burgdorferi Antibody IgM Immunoblot, Positive, AB, Negative, ARRL

INTERPRETIVE INFORMATION: B. burgdorferi Antibody IgM Immunoblot

For this assay, a positive result is reported when any 2 or more of the following bands are present: 23, 39, or 41 kDa. All other banding patterns are reported as negative.

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Lyme Standard 2-Tier Testing Interp, Positive, AB, Negative, ARRL

INTERPRETIVE INFORMATION: Lyme Standard 2-Tier, 2nd Tier

IgG: For this assay, a positive result is reported when any

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



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 01/17/2024 08:53 Received: 01/17/2024 08:53

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Contains text describing IgM test results and laboratory information.

Reported Date: 01/17/2024 08:53 BBUVR
Performing Site:
ARRL: ARUP REFERENCE LAB 500 Chipeta Way Salt Lake City UT 841081221

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

F717000006 Ordered By: KAJAL SITWALA, MD, PhD
WX0000003827 WX000000000002365
Printed D&T: 01/17/24 08:54

Kajal V. Sitwala, MD, PhD - Medical Director
Form: MM RL1
PAGE 2 OF 2

Inactivate Test With Replacement			
Effective Date	2/27/2024		
Inactivated Test			
Name	Bile Acids, Total		
Code	BIACT		
Legacy Code	BILEACTSP		
Interface Order Code	3717900		
Replacement Test			
Name	Bile Acids, Total		
Code	BILAT		
CPT Code(s)	82239		
Notes	New York DOH Approval Status: Yes		
Specimen Requirements			
Specimen Required	<i>Patient Preparation:</i> Patient should fast for eight hours prior to collection. <i>Collect:</i> Serum separator tube (SST) <i>Specimen Preparation:</i> Allow sample to clot completely at room temperature before centrifugation. Centrifuge and separate serum from cells within 1 hour of collection. Send 1.0 mL serum in a screw capped plastic vial. <i>Minimum Volume:</i> 0.5 mL <i>Transport Temperature:</i> Refrigerated		
Alternate Specimen	Plasma: Lavender EDTA or Green lithium heparin		
Rejection Criteria	Hemolyzed samples or hemolysis, body fluids		
Stability	Room temperature: 8 hours Refrigerated: 14 days Frozen: 90 days		
Performing Information			
Methodology	Quantitative Enzymatic Assay		
Reference Range	0 - 10 mcgmol/L		
Performed Days	Sunday - Saturday		
Turnaround Time	3 - 5 days		
Performing Laboratory	ARUP Reference Laboratory		
Interface Information			
Legacy Code	BILAT		
Interface Order Code	3600347		
Result Code	Name	LOINC Code	AOE/Prompt²
3600347	Bile Acids, Total	14628-2	No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 01/17/2024 08:43 Received: 01/17/2024 08:43

<u>Test Name</u>	<u>Result</u>	<u>Flag</u>	<u>Ref-Ranges</u>	<u>Units</u>	<u>Site</u>
Bile Acids, Total	8		0-10	umol/L	ARRL

INTERPRETIVE INFORMATION: Bile Acids, Total

Reference Interval applies to fasting specimens.
Performed By: ARUP Laboratories
500 Chipeta Way
Salt Lake City, UT 84108
Laboratory Director: Jonathan R. Genzen, MD, PhD
CLIA Number: 46D0523979

Reported Date: 01/17/2024 08:43 BILAT

Performing Site:

ARRL: ARUP REFERENCE LAB 500 Chipeta Way Salt Lake City UT 841081221

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

F717000001
WX0000003827

Ordered By: KAJAL SITWALA, MD, PhD
WX00000000002365

Printed D&T: 01/17/24 08:44

Kajal V. Sitwala, MD, PhD - Medical Director

Form: MM RL1

PAGE 1 OF 1

Inactivate Test With Replacement			
Effective Date	2/6/2024		
Inactivated Test			
Name	Biotinidase		
Code	BIOT		
Legacy Code	BIOT		
Interface Order Code	3500562		
Replacement Test			
Name	Biotinidase, Serum		
Code	BIOTS		
CPT Code(s)	82261		
Notes	New York DOH Approval Status: Yes		
Specimen Requirements			
Specimen Required	<i>Collect:</i> Serum: Red top <i>Specimen Preparation:</i> Centrifuge, separate immediately after collection and send 1.0 mL serum in a screw capped plastic vial. <i>Minimum Volume:</i> 0.5 mL <i>Transport Temperature:</i> Frozen		
Alternate Specimen	Serum separator tube (SST)		
Rejection Criteria	Gross hemolysis		
Stability	Room temperature: Unacceptable Refrigerated: 5 days Frozen: 21 days		
Performing Information			
Methodology	Colorimetric		
Reference Range	3.5 - 13.8 U/mL		
Performed Days	Monday, Thursday		
Turnaround Time	6 - 10 days		
Performing Laboratory	Mayo Clinic Laboratories		
Interface Information			
Legacy Code	BIOTS		
Interface Order Code	3800348		
Result Code	Name	LOINC Code	AOE/Prompt ²
3800349	Biotinidase, S	1982-8	No
3800351	Interpretation	59462-2	No
3800352	Reviewed By	18771-6	No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 01/17/2024 08:46 Received: 01/17/2024 08:46

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Biotinidase, S, 3.5, 3.5-13.8, U/L, MMRL. Row 2: Interpretation, SEE BELOW, MMRL.

NEGATIVE In this sample, biotinidase activity is normal. These results indicate this individual is not affected with biotinidase deficiency.

-----ADDITIONAL INFORMATION-----
Colorimetric Enzyme Assay
This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

Reviewed By SEE BELOW MMRL

RESULT: Rebecca Billings

Test Performed by:
Mayo Clinic Laboratories - Rochester Main Campus
200 First Street SW, Rochester, MN 55905
Lab Director: William G. Morice M.D. Ph.D.; CLIA# 24D0404292

Reported Date: 01/17/2024 08:47 BIOTS

Performing Site:

MMRL: MAYO MEDICAL REFERENCE LAB 3050 Superior Drive NW Rochester MN 55901

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

Inactivate Test With Replacement			
Effective Date	2/6/2024		
Inactivated Test			
Name	Liver Cytosol (LC-1) Autoantibodies		
Code	LC1AA		
Legacy Code	LC1AA		
Interface Order Code	3724300		
Replacement Test			
Name	Liver Cystolic Antigen Type 1 (LC-1) Ab, IgG		
Code	LCA1G		
CPT Code(s)	84182		
Notes	New York DOH Approval Status: Yes		
Specimen Requirements			
Specimen Required	<i>Collect:</i> Serum separator tube (SST) <i>Specimen Preparation:</i> Centrifuge, separate serum from cells and send 1.0 mL serum in a screw capped plastic vial. <i>Minimum Volume:</i> 0.3 mL <i>Transport Temperature:</i> Refrigerated		
Rejection Criteria	Contaminated, hemolyzed, or severely lipemic		
Stability	Room temperature: 2 days Refrigerated: 14 days Frozen: 1 year		
Performing Information			
Methodology	Qualitative Immunoblot		
Reference Range	Negative		
Performed Days	Tuesday		
Turnaround Time	3 - 10 days		
Performing Laboratory	ARUP Reference Laboratory		
Interface Information			
Legacy Code	LCA1G		
Interface Order Code	3600346		
Result Code	Name	LOINC Code	AOE/Prompt²
3600346	Liver Cystolic Antigen Type 1 (LC-1) Ab, IgG	13175-5	No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 01/17/2024 08:45 Received: 01/17/2024 08:45

<u>Test Name</u>	<u>Result</u>	<u>Flag</u>	<u>Ref-Ranges</u>	<u>Units</u>	<u>Site</u>
Liver Cystolic Antigen Type 1 (LC-1) Ab, IgG	Negative		Negative		ARRL

Performed By: ARUP Laboratories
500 Chipeta Way
Salt Lake City, UT 84108
Laboratory Director: Jonathan R. Genzen, MD, PhD
CLIA Number: 46D0523979

Reported Date: 01/17/2024 08:46 LCA1G

Performing Site:

ARRL: ARUP REFERENCE LAB 500 Chipeta Way Salt Lake City UT 841081221

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

F717000002
WX0000003827

Ordered By: KAJAL SITWALA, MD, PhD
WX00000000002365

Printed D&T: 01/17/24 08:46

Kajal V. Sitwala, MD, PhD - Medical Director

Form: MM RL1

PAGE 1 OF 1

Inactivate Test With Replacement			
Effective Date	2/6/2024		
Inactivated Test			
Name	Narcolepsy (HLA-DQB1*06:02) Genotyping		
Code	NARCO		
Legacy Code	NARCO		
Interface Order Code	3621400		
Replacement Test			
Name	Narcolepsy HLA-DQ Genotyping (HLA-DQB1*06:02)		
Code	NARCG		
CPT Code(s)	81383		
Notes	New York DOH Approval Status: Yes		
Specimen Requirements			
Specimen Required	<i>Collect:</i> Lavender EDTA <i>Specimen Preparation:</i> Send 3.0 mL whole blood. <i>Minimum Volume:</i> 1.0 mL <i>Transport Temperature:</i> Refrigerated		
Alternate Specimen	Whole blood: Yellow ACD A		
Rejection Criteria	Yellow ACD B, heparinized specimens, clotted, grossly hemolyzed.		
Stability	Room temperature: 72 hours Refrigerated: 7 days Frozen: Unacceptable		
Performing Information			
Methodology	Polymerase Chain Reaction (PCR), Massively Parallel Sequencing, Sequence-Specific Oligonucleotide Probe Hybridization		
Reference Range	See report		
Performed Days	Monday - Friday		
Turnaround Time	10 - 17 days		
Performing Laboratory	ARUP Reference Laboratory		
Interface Information			
Legacy Code	NARCG		
Interface Order Code	3600362		
Result Code	Name	LOINC Code	AOE/Prompt²
3600363	HLA-DQB1, Allele 1	57299-0	No
3600364	HLA-DQB1, Allele 2	57299-0	No
3600366	Narcolepsy HLA Interpretation		No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 01/17/2024 08:51 Received: 01/17/2024 08:51

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Narcolepsy HLA-DQ Genotyping (HLA-DQB1*06:02), HLA-DQB1, Allele 1, 06:02, ARRL

Performed By: UUH Histocompatibility and Immunogenetic
417 Wakara Way
Suite 3220
Salt Lake City, UT 84108
CLIA Number: 46D0523979

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: HLA-DQB1, Allele 2, 06:02, ARRL

Performed By: UUH Histocompatibility and Immunogenetic
417 Wakara Way
Suite 3220
Salt Lake City, UT 84108
CLIA Number: 46D0523979

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Narcolepsy HLA Interpretation, See Note, ARRL

Positive for HLA-DQB1*06:02, two copies.
The HLA-DQB1*06:02 allele, which is strongly associated with narcolepsy, was detected. Two copies of the HLA-DQB1*06:02 allele double the risk for narcolepsy, compared to just one copy. This result is supportive of a clinical diagnosis of narcolepsy, but by itself does not establish a diagnosis. Medical screening and management of this individual should rely on clinical findings.

Performed By: UUH Histocompatibility and Immunogenetic
417 Wakara Way
Suite 3220
Salt Lake City, UT 84108
CLIA Number: 46D0523979

BACKGROUND INFORMATION: Narcolepsy Genotyping (HLA-DQB1*06:02)

Characteristics: Narcolepsy is a chronic neurological sleep disorder that manifests in excessive daytime sleepiness and difficulty in maintaining wakefulness. Narcolepsy type 1 is associated with cataplexy (the sudden loss of muscle tone triggered by strong emotions). Additionally, disturbed nighttime sleep, sleep paralysis, and hypnagogic hallucinations (occurring in the period between sleep and wakefulness) are common.

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



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 01/17/2024 08:51

Received: 01/17/2024 08:51

<u>Test Name</u>	<u>Result</u>	<u>Flag</u>	<u>Ref-Ranges</u>	<u>Units</u>	<u>Site</u>
------------------	---------------	-------------	-------------------	--------------	-------------

Incidence: Varies, depending on ethnicity. It affects 0.02-0.05% of the populations in the US and Europe, it is most common in Japan (0.16-0.18%).

Inheritance: Multifactorial.

Cause: The HLA-DQB1*06:02 allele is strongly associated with narcolepsy, but by itself is not causative. Homozygosity for DQB1*06:02 allele doubles the risk, compared to heterozygous individuals.

Alleles Tested: HLA-DQB1 alleles.

Clinical Sensitivity: 85-95 percent depending on ethnicity. Greater than 98% of affected Caucasians with cataplexy have the HLA-DQB1*06:02 allele.

Clinical Specificity: Less than 1 percent; 15-25 percent of unaffected Caucasians carry the HLA-DQB1*06:02 allele.

Methodology: Polymerase Chain Reaction/Massively Parallel Sequencing, or Polymerase Chain Reaction/Sequence-Specific Oligonucleotide Probe Hybridization

Analytical Sensitivity and Specificity: 99 percent.

Limitations: Rare diagnostic errors may occur due to primer site mutations. Other genetic and nongenetic factors that influence narcolepsy disease are not evaluated. In cases where an HLA allele cannot be resolved unambiguously, the allele assignment will be reported as the most common, based on allele frequencies from the common, intermediate, and well-documented alleles catalogue version 3.0.0 (Hurley CK et al, 2020).

This test was developed and its performance characteristics determined by the Histocompatibility & Immunogenetics laboratory at the University of Utah Health. It has not been cleared or approved by the US Food and Drug Administration (FDA). The FDA has determined that such clearance or approval is not necessary. This test is used for clinical purposes. It should not be regarded as investigational or for research. Histocompatibility & Immunogenetics laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88) as qualified to perform high complexity clinical laboratory testing.

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

F717000005
WX0000003827
Printed D&T: 01/17/24 08:52

Ordered By: KAJAL SITWALA, MD, PhD
WX00000000002365

Kajal V. Sitwala, MD, PhD - Medical Director
Form: MM RL1
PAGE 2 OF 3



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 01/17/2024 08:51 Received: 01/17/2024 08:51

<u>Test Name</u>	<u>Result</u>	<u>Flag</u>	<u>Ref-Ranges</u>	<u>Units</u>	<u>Site</u>
Performed at: Histocompatibility & Immunogenetics Laboratory, University of Utah Health, 417 Wakara Way, Suite 3220, Salt Lake City, UT 84108. CLIA Number: 46D0679773					

Counseling and informed consent are recommended for genetic testing. Consent forms are available online.

Reported Date: 01/17/2024 08:51 NARCG

Performing Site:
ARRL: ARUP REFERENCE LAB 500 Chipeta Way Salt Lake City UT 841081221

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

F717000005
WX0000003827

Ordered By: KAJAL SITWALA, MD, PhD
WX00000000002365

Printed D&T: 01/17/24 08:52

Kajal V. Sitwala, MD, PhD - Medical Director

Form: MM RL1

PAGE 3 OF 3

Inactivate Test With Replacement			
Effective Date	2/5/2024		
Inactivated Test			
Name	Copper 24 Hour Urine		
Code	UCUQ		
Legacy Code	UCOPSP		
Interface Order Code	3706125		
Replacement Test			
Name	Copper, 24 Hour Urine		
Code	C24U		
CPT Code(s)	82525		
Notes	New York DOH Approval Status: Yes		
Specimen Requirements			
Specimen Required	<p><i>Collect:</i> 24 hour urine in acid washed or metal free container <i>Specimen Preparation:</i> Mix well and send 7.0 mL urine refrigerated in an acid washed screw-capped plastic container. Record total volume on specimen container and test requisition. Call lab for collection container. <i>Minimum Volume:</i> 3.0 mL <i>Transport Temperature:</i> Refrigerated</p>		
Rejection Criteria	Hemolysis, random urine, fecal contamination		
Stability	Room temperature: 5 day Refrigerated: 14 days Frozen: 30 days		
Performing Information			
Methodology	Inductively Coupled Plasma/Mass Spectrometry (ICP/MS)		
Reference Range	15 - 60 mcg/24 hr		
Performed Days	Sunday, Wednesday, Friday		
Turnaround Time	3 - 5 days		
Performing Laboratory	Quest SJC		
Interface Information			
Legacy Code	C24U		
Interface Order Code	3400843		
Result Code	Name	LOINC Code	AOE/Prompt²
3400844	Urine Volume	3167-4	Yes
3400846	Collection Duration	13362-9	Yes
3706130	Copper, 24 Hour Urine	5633-3	No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003826 F 12/05/1988 35 Y

Referral Testing

Collected: 01/25/2024 08:13 Received: 01/25/2024 08:13

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Copper, 24 Hour Urine. Row 2: Urine Volume 1200, QCRL. Row 3: Collection Duration 24, QCRL. Row 4: Copper, 24 Hour Urine 30, 15-60, mcg/24 h, QCRL.

(Note)
This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by the FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

Test Performed at:
MedFusion
2501 South State Highway 121, Suite 1100

Reported Date: 01/25/2024 08:14 C24U

Performing Site:
QCRL: QUEST DIAGNOSTICS REFERENCE LAB CAPISTRANO 33608 Ortega Highway San Juan Capistrano CA 92675

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

Inactivate Test Without Replacement	
Effective Date	2/19/2024
Name	Isohemagglutinin
Code	ISOH
Legacy Code	ISOH
Interface Code	3504110
Notes	Test discontinued.

Inactivate Test Without Replacement	
Effective Date	2/20/2024
Name	Pyridinium
Code	ZPYRI
Legacy Code	PYRIDIN
Interface Code	3509465
Notes	Test discontinued.