

NOVEMBER 2020

Update Notes

We now have a limited supply of Aptima[®] Combo II Urine transport media. If you need media for urine collections for CHGTM, CHRNA, GCRNA, or TRIVA please contact WML Client Services to place an order. Please remember supplies are limited and we will fill your order based on testing volumes.

| Update Summary | | |
|----------------------------------|------------|--|
| New Test Activation | 10/27/2020 | 5INHE - "Factor V Inhib Profile, P" |
| New Test Activation | 10/27/2020 | 9INHE - "Factor IX Inhib Profile, P" |
| New Test Activation | 11/16/2020 | ADDPF - "Adenosine Deaminase, Pericardial Fluid" |
| New Test Activation | 11/16/2020 | COCSF - "Coccidioides Ab by CF & ID, CSF" |
| New Test Activation | 10/27/2020 | HPDNA - "HPV DNA, High Risk, Cervical with Reflex to Genotypes 16,18" |
| New Test Activation | 10/20/2020 | HPVMR - "HPV mRNA E6/E7 with Reflex to HPV Genotypes 16, 18/45" |
| Update Existing Test | 11/16/2020 | ADACS - "Adenosine Deaminase, CSF" |
| Update Existing Test | 11/16/2020 | ADAPF - "Adenosine Deaminase, Pleural Fluid" |
| Update Existing Test | 11/16/2020 | ADAPR - "Adenosine Deaminase, Peritoneal Fluid" |
| Update Existing Test | 11/16/2020 | APHF - "pH, Fecal" |
| Update Existing Test | 11/23/2020 | ARIX - "Arixtra (Fondaparinux) Level" |
| Update Existing Test | 11/23/2020 | BCRPQ - "BCR-ABL1 Gn Rearrange Qnt PCR" |
| Update Existing Test | 11/16/2020 | CHLPR - " Chlorpromazine, Serum or Plasma" |
| Update Existing Test | 10/13/2020 | COVG - "SARS Coronavirus 2 IgG Antibody" |
| Update Existing Test | 10/13/2020 | COVW - "SARS-CoV-2 Qualitative" |
| Update Existing Test | 11/16/2020 | CYAN - " CYANIDE, WHOLE BLOOD" |
| Update Existing Test | 10/13/2020 | FUKAU - " Ustekinumab Quantitation with Antibodies, Serum" |
| Update Existing Test | 11/23/2020 | HEPXA - "Heparin Anti-Xa" |
| Update Existing Test | 11/23/2020 | IGVHM - "IgVH Mutation, Cell-Based (CLL)" |
| Update Existing Test | 10/27/2020 | IL6 - "Interleukin 6" |
| Update Existing Test | 10/13/2020 | LYME - "Borrelia burgdorferi Total IgG/IgM Antibody" |
| Update Existing Test | 11/16/2020 | PPR - " Erythrocyte Porphyrin (EP), Whole Blood" |
| Update Existing Test | 11/2/2020 | PROPQ - "Propafenone, Serum/Plasma" |
| Update Existing Test | 11/16/2020 | THIOC - "Thiocyanate, Serum or Plasma" |
| Update Existing Test | 11/16/2020 | UHEMS - "Hemosiderin, Urine" |
| Update Existing Test | 11/16/2020 | UMEQG - "Methaqualone by GC/MS Urine" |
| Update Existing Test | 11/2/2020 | WAR - "Warfarin, Serum/Plasma" |
| Inactivate Test With Replacement | 11/16/2020 | BUPSP - "Bupropion, Serum or Plasma" replaced by BSEPL - |
| | | "Bupropion and metabolite, S/P" |

Warde Medical Laboratory

TEST DIRECTORY UPDATE

| Inactivate Test With Replacement | 11/16/2020 | COCID - "Coccidioides Ab (ID)" replaced by COSER - "Coccidioides Ab by CF & ID, Serum" |
|----------------------------------|------------|---|
| Inactivate Test With Replacement | 10/8/2020 | MSI - "Microsatellite Instability (MSI), Tissue" replaced by TMSI - "Microsatellite Instability, Tumor" |
| Inactivate Test With Replacement | 10/27/2020 | NMDGR - "N-methyl-D-Aspartate Receptor Ab IgG Serum w Reflex toTiter" replaced by NMETD - "N-methyl-D-Aspartate Rcptr Ab, IgG, Ser" |



| New Test Activation | | | | | | | | |
|-------------------------------|---|--|-------------------------------|--|--|--|--|--|
| Effective Date | 10 | /27/2020 | | | | | | |
| Name | Factor V Inhib Profile, P | | | | | | | |
| Code | | 5INHE | | | | | | |
| CPT Code(s) | 85220, 85390. Plus 85335 and/or 85390 as ap | ppropriate, at add | litional fees | | | | | |
| Notes | Patient Notes: Patient must not be receiving C fasting is preferred. | atient Notes: Patient must not be receiving Coumadin (warfarin) or heparin therapy and patien asting is preferred. | | | | | | |
| Specimen Requirements | | | | | | | | |
| Specimen Required | Draw blood in a light blue 3.2% sodium citrate collection instructions. Send 3.0 mL plasma (1 capped plastic vials. Minimum volume 2.0 mL | .0 mL in each vial |) frozen in 3 separate screw- | | | | | |
| Rejection Criteria | Serum, non-frozen or hemolyzed specimens | | | | | | | |
| Stability | Room temperature: 4 hours; Refrigerated: 4 h | ours; Frozen: 14 | days | | | | | |
| Performing Information | | | | | | | | |
| Methodology | Optica | al Clot-Based | | | | | | |
| Reference Range | Se | e report | | | | | | |
| Performed Days | Monday - Friday | | | | | | | |
| Turnaround Time | 2 - 3 days | 2 - 3 days | | | | | | |
| Performing Laboratory | Mayo Cli | nic Laboratories | | | | | | |
| Interface Information | | | | | | | | |
| Legacy Code ¹ | | 5INHE | | | | | | |
| Interface Order Code | 3 | 800209 | | | | | | |
| Result Code | Name | Name LOINC Code AOE/Prompt ² | | | | | | |
| 3800173 | Result | 81124-0 | No | | | | | |



| New Test Activation | | | | | | |
|---------------------------|--|--|--|--|--|--|
| Effective Date | 10/27/2020 | | | | | |
| Name | Factor IX Inhib Profile, P | | | | | |
| Code | 9INHE | | | | | |
| CPT Code(s) | 85250, 85390, plus 85335 and/or 85390 as appropriate, at additional cost | | | | | |
| Notes | Patient Notes: Patient must not be receiving Coumadin (warfarin) or heparin therapy and patient fasting is preferred. | | | | | |
| Specimen Requirements | | | | | | |
| Specimen Required | Draw blood in a light blue 3.2% sodium citrate tube. See appendices for coagulation test collection instructions. Send 3.0 mL plasma (1.0 mL in each vial) frozen in 3 separate screw-capped plastic vials. Minimum volume 2.0 mL in 2 screw-capped plastic vials, 1.0 mL in each. | | | | | |
| Rejection Criteria | Serum, non-frozen or hemolyzed specimens | | | | | |
| Stability | Room temperature: 4 hours; Refrigerated: 4 hours; Frozen: 14 days | | | | | |
| Performing Information | | | | | | |
| Methodology | Varies by test | | | | | |
| Reference Range | See report | | | | | |
| Performed Days | Monday - Friday | | | | | |
| Turnaround Time | 2 - 3 days | | | | | |
| Performing Laboratory | Mayo Clinic Laboratories | | | | | |
| Interface Information | | | | | | |
| Legacy Code ¹ | 9INHE | | | | | |
| Interface Order Code | 3800201 | | | | | |
| Result Code | NameLOINC CodeAOE/Prompt² | | | | | |
| 3800174 | Result Not available No | | | | | |



| New Test Activation | | | | | | | | | |
|--------------------------|--|--|------------------------------------|--|--|--|--|--|--|
| Effective Date | 11 | /16/2020 | | | | | | | |
| Name | Adenosine Dean | Adenosine Deaminase, Pericardial Fluid | | | | | | | |
| Code | | ADDPF | | | | | | | |
| CPT Code(s) | 84311 | 4311 | | | | | | | |
| Notes | | | | | | | | | |
| Specimen Requirements | ; | | | | | | | | |
| Specimen Required | Collect pericardial fluid, centrifuge specimen, screw-capped plastic vial. | and send 0.5 mL | fluid (0.2 mL minimum) frozen in a | | | | | | |
| Rejection Criteria | Whole blood Bronchoalveolar lavage | | | | | | | | |
| Stability | Room temperature: 24 hours; Refrigerated: 1 week; Frozen: 30 days | | | | | | | | |
| Performing Information | - | | | | | | | | |
| Methodology | Quantitative | Spectrophotome | try | | | | | | |
| Reference Range | 0.0 | - 40.0 U/L | | | | | | | |
| Performed Days | Sunday, Tuesday, Thursday | | | | | | | | |
| Turnaround Time | 3 - 6 days | | | | | | | | |
| Performing Laboratory | ARUP Reference Laboratory | | | | | | | | |
| Interface Information | | - | | | | | | | |
| Legacy Code ¹ | | ADDPF | | | | | | | |
| Interface Order Code | 3 | 3600193 | | | | | | | |
| Result Code | Name | LOINC Code | AOE/Prompt ² | | | | | | |
| 3600193 | Adenosine Deaminase, Pericardial Fluid | 49760-2 | No | | | | | | |



EXAMPLE, REPORT WX0000003039 M 12/05/1988 31 Y

| | Referral Collec | Testing cted: 10/13/2020 | 0 16:45 | Received: 10/13/2020 | 16:45 |
|---|---|------------------------------------|------------|----------------------|-------------|
| Test Name | Result | Flag | Ref-Ranges | Units | <u>Site</u> |
| Adenosine Deaminase, Pericardial Fluid | 45 | AB | U/L | U/L | ARRL |
| INTERPRETIVE INFORMATION:AG F Test developed and characte Laboratories. See Compliand Performed by ARUP Laborato 500 Chipeta Way, SLC,UT 84 www.aruplab.com, Tracy I. (| luid eristics determin ce Statement B: a ries, 108 800-522-2787 | ned by ARUP aruplab.com/ | | | |
| | - | | | Perform | ning Site: |

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



| New Test Activation | | | | | |
|-------------------------------|---|--------------------|------------------------------------|--|--|
| Effective Date | 11/16/2020 | | | | |
| Name | Coccidioides Ab by CF & ID, CSF | | | | |
| Code | | COCSF | | | |
| CPT Code(s) | 86635 x 2 | | | | |
| Notes | | | | | |
| Specimen Requirements | | | | | |
| Specimen Required | Collect CSF and send 2.5 mL fluid (1.0 mL min | imum) refrigerate | ed in a screw-capped plastic vial. | | |
| Rejection Criteria | Other body fluids, contaminated, hemolyzed, | xanthochromic, o | or severely lipemic specimens. | | |
| Stability | Room temperature: 48 hours; Refrigerated: 2 | weeks; Frozen: 1 | . year | | |
| Performing Information | | | | | |
| Methodology | Semi-Quantitative Complement | t Fixation/Qualita | tive Immunodiffusion | | |
| Reference Range | Se | ee report | | | |
| Performed Days | Sunday - Saturday | | | | |
| Turnaround Time | 3 - 7 days | | | | |
| Performing Laboratory | ARUP Refe | erence Laboratory | / | | |
| Interface Information | | | | | |
| Legacy Code ¹ | | COCSF | | | |
| Interface Order Code | 3 | 3600201 | | | |
| Result Code | Name | LOINC Code | AOE/Prompt ² | | |
| 3600197 | Coccidioides by Immunodiffusion, CSF | 21209-2 | No | | |
| 3600198 | Coccidioides Ab by CF, CSF | 13917-0 | No | | |



EXAMPLE, REPORT WX0000003039 M 12/05/1988 31 Y

| | | Referral 1 | 「esting | | | | |
|------------------|---|---|---|-------------------------|-----------|-------------|-------------|
| | | Collec | ted: 10/13/2020 | 0 16:48 Re | eceived: | 10/13/2020 | 16:48 |
| <u>Test Name</u> | | <u>Result</u> | Flag | Ref-Ranges | <u>Uı</u> | <u>nits</u> | <u>Site</u> |
| Coccidio | oides Ab by CF & ID, CSF | | | | | | |
| | s by Immunodiffusion, CSF | Detected | AB | None Detected | | | ARR |
| | INTERPRETIVE INFORMATION: C | occidioides by I SF | mmunodiffus | ion, | | | |
| | Coccidioides infection is d IgM antibody to the Immunod antigen. IgM antibody may b the onset of primary infect recent infection. IgM antib after infection but may rea persist in disseminated cas | iffusion Tube Pr e detected 1 to ion and may sugg ody is rarely de ppear with relap | ecipitin (I 3 weeks aft est active tected 6 mo | DTP) er or | | | |
| | IgG antibody may also be de Immunodiffusion Complement represent active or past in serology does not rule out Test developed and characte | Fixation (IDCF) fection. Negativ current infectio | antigen and re fungal n. | | | | |
| | Laboratories. See Complianc s Ab by CF, CSF | | - | cs <1:2 | | | ARF |
| | INTERPRETIVE INFORMATION: C Fixation (CF) | occidioides Ab b | y Complemen | t | | | |
| | Any titer suggests past or greater than 30 percent of pulmonary disease have nega tests. Titers of less than indicate past infection or anticoccidiodal CF antibody indicate disseminated infec follow therapy. Antibody in for coccidioidal meningitis patients with coccidioidal antibody in CSF. | cases with chron tive Complement 1:32 (even as lo self-limited dis titers in exces tion. CF serolog CSF is consider , although 10 pe | tic residual Fixation (C www.as 1:2) m ease; s of 1:16 m yy may be us red diagnost ercent of | F) ay ay ed to | | | |
| | This test was developed and determined by ARUP Laborato approved by the US Food and was performed in a CLIA cer intended for clinical purpo Performed by ARUP Laborator 500 Chipeta Way, SLC,UT 841 www.aruplab.com, Tracy I. G | ries. It has not Drug Administra tified laborator ses. ies, 08 800-522-2787 | been clear tion. This ty and is | ed or | | | |

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

| B813000001 | Ordere |
|-----------------------------|--------|
| WX000003039 | WX000 |
| Printed D&T: 10/13/20 16:54 | |



LABORATORY REPORT

Example Client, XYZ123 1234 Warde Road Ann Arbor MI 48108 EXAMPLE, REPORT WX0000003039 M 12/05/1988 31 Y

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



| New Test Activation | |
|--------------------------|---|
| Effective Date | 10/27/2020 |
| Name | HPV DNA, High Risk, Cervical with Reflex to Genotypes 16,18 |
| Code | HPDNA |
| CPT Code(s) | 87624, plus 87625 if reflexed, at an additional fee |
| Notes | |
| Specimen Requirements | |
| Specimen Required | Send 4.0 mL PreservCyt [®] fluid collected in a Liquid Cytology PreservCyt [®] Preservative (ThinPrep [®]). Minimum volume 2.0 mL. |
| Alternate Specimen | 2.0 mL SurePath™ fluid (1.0 mL minimum) collected in TriPath SurePath™ vials - post processing of the PAP smear. |
| Rejection Criteria | Cervical swabs in Digene [®] HC cervical sampler, unprocessed Cytyc [®] media without cervical brush/broom, Swabs, Digene [®] vials, SurePath [™] pellet, samples treated with acetic acid, Vaginal sources, Biopsy |
| Stability | ThinPrep[®] Room temperature: 6 months; Refrigerated: 6 months; Frozen: Unacceptable SurePath™ Room temperature: 28 days; Refrigerated: 6 months; Frozen: Unacceptable |
| Performing Information | |
| Methodology | Real-Time Polymerase Chain Reaction (PCR) |
| Reference Range | HPV DNA, High Risk: Not detected HPV 16: Not detected HPV 18: Not detected |
| Performed Days | Tuesday - Saturday |
| Turnaround Time | 6–9 days |
| Performing Laboratory | Quest SJC |
| Interface Information | |
| Legacy Code ¹ | HPDNA |
| Interface Order Code | 3400409 |
| Result Code | NameLOINC CodeAOE/Prompt² |
| 3400409 | HPV DNA, High Risk, Cervical 82675-0 No |



| New Test Activation | | | | | | |
|-------------------------------|---|--|-------------------------|--|--|--|
| Effective Date | 10 |)/20/2020 | | | | |
| Name | HPV mRNA E6/E7 with Re | flex to HPV Geno | types 16, 18/45 | | | |
| Code | HPVMR | | | | | |
| CPT Code(s) | 37624, plus 87625 if reflexed, at an additional fee | | | | | |
| Notes | | | | | | |
| Specimen Requirements | ; | | | | | |
| Specimen Required | Send 5.0 mL liquid cytology (PreservCyt [®]) pre kit (orange label) or APTIMA [®] specimen tran | | | | | |
| Alternate Specimen | ThinPrep [®] vial | | | | | |
| Rejection Criteria | Cervical swabs in Digene [®] HC Cervical Sampler, Digene [®] vials, swabs, SurePath [®] Vials, Received frozen | | | | | |
| Stability | Room temperature: 30 days; Refrigerated: 90 | Room temperature: 30 days; Refrigerated: 90 days; Frozen: Unacceptable | | | | |
| Performing Information | | | | | | |
| Methodology | Transcription Med | iated Amplification | on (TMA) | | | |
| Reference Range | S | ee report | | | | |
| Performed Days | Tuesday, Thursday, Saturday | | | | | |
| Turnaround Time | 5 - 8 days | | | | | |
| Performing Laboratory | C | Quest SJC | | | | |
| Interface Information | | | | | | |
| Legacy Code ¹ | | HPVMR | | | | |
| Interface Order Code | | 3400359 | | | | |
| Result Code | Name | LOINC Code | AOE/Prompt ² | | | |
| 3400360 | HPV MRNA E6/E7 Reflex to Genotypes 1, 18/45 | 69002-4 | No | | | |
| 3400361 | HPV 16 RNA | 77399-4 | No | | | |
| 3400362 | HPV 18/45 RNA | 75694-0 | No | | | |



EXAMPLE, REPORT WX0000003039 M 12/05/1988 31 Y

| | | Referral Testi | - | | | | |
|------------------|---|---|-------------|-----------|------------|--------------|-------------|
| | | Collected: 10 |)/13/2020 | | | | 16:55 |
| Test Name | | <u>Result</u> | <u>Flag</u> | Ref-Range | <u>s l</u> | <u>Jnits</u> | <u>Site</u> |
| | NA E6/E7 with Reflex to HPV E6/E7 Reflex to Genotypes 1, | Genotypes 16, 18 NOT DETECTED | 8/45 | | | | QCRL |
| F | REFERENCE RANGE: HPV mRNA E6/E7: NOT DETEC | TED | | | | | |
| Μ | Methodology: Transcription-Me | diated Amplificati | on | | | | |
| f | This assay detects E6/E7 viral from 14 high-risk HPV types (1 45, 51, 52, 56, 58, 59, 66, 68 | 6, 18, 31, 33, 35, | - | | | | |
| h (| For additional information, pl http://education.questdiagnost (This link is being provided f educational purposes only.) | ics.com/faq/FAQ129 | vl | | | | |
| a I k k | The analytical performance cha assay have been determined by Infectious Disease, Inc. The m been cleared or approved by th been validated pursuant to the is used for clinical purposes. | Quest Diagnostics odifications have e FDA. This assay | not has | | | | |
| Ç | Test Performed at: Quest Diagnostics Infectious D 33608 Ortega Highway San Juan Capistrano, CA 92675 | | erman 1 | MD | | | QCRL |
| HPV 18/45 R | RNA | .TNP | | | | | QCRL |
| | | | | | | Perform | ning 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

Ordered By: CLIENT CLIENT WX0000000001595



EXAMPLE, REPORT WX0000003039 M 12/05/1988 31 Y

| | | Referral Te | • | | | | |
|--------------------------------|--|--|----------------------------------|------------|-----------|--------------|-------------|
| | | Collecte | d: 10/13/2020 | 17:13 | Received: | 10/13/2020 | 17:13 |
| Test Name | | Result | <u>Flag</u> | Ref-Ranges | <u> </u> | <u>Jnits</u> | <u>Site</u> |
| | 6/E7 with Reflex to Reflex to Genotypes 1, | HPV Genotypes 10 DETECTED | 6, 18/45 _{AB} | | | | QCRI |
| REFEF | RENCE RANGE: HPV mRNA E6/E7: NOT E | ETECTED | | | | | |
| Metho | odology: Transcriptic | n-Mediated Amplific | cation | | | | |
| from | assay detects E6/E7 v 14 high-risk HPV type 1, 52, 56, 58, 59, 66 | es (16, 18, 31, 33, | | | | | |
| http: (This | additional information //education.questdiag s link is being provid ational purposes only. | nostics.com/faq/FAQ led for informationa | | | | | |
| assay Infec been been | nalytical performance have been determined tious Disease, Inc. T cleared or approved b validated pursuant to sed for clinical purpo | l by Quest Diagnost: The modifications have by the FDA. This as the CLIA regulation | ics ave not say has | | | | |
| Quest 33608 | Performed at: Diagnostics Infectic Ortega Highway Juan Capistrano, CA 9 | | Batterman M AB AB | D | | | QCR |
| HPV 1 | RENCE RANGE: 6 RNA: NOT DETECTED 8/45 RNA: NOT DETECTE | D | | | | | |
| Metho | dology: Transcription | Mediated Amplifica | ation | | | | |
| assay Infec clear | analytical performance have been determined tious Disease. The mo ed or approved by the lated pursuant to the | l by Quest Diagnost: difications have no e FDA. This assay ha | ics ot been as been | | | | |

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

| B813000003 | Ordered By: | CLIENT CLIENT | |
|-----------------------------|-----------------|---------------|--|
| WX000003039 | WX0000000001595 | | |
| Printed D&T: 10/13/20 17:14 | | | |



EXAMPLE, REPORT WX0000003039 M 12/05/1988 31 Y

| | Refe | rral Testing | | | | |
|-----------|---|----------------------------|-----------------|-------------------|---------------------|-------------|
| | | Collected: 10/13/2020 | 17:13 | Received: | 10/13/2020 | 17:13 |
| Test Name | <u>Result</u> | <u>Flag</u> | Ref-Ranges | <u>Ur</u> | <u>nits</u> | <u>Site</u> |
| | used for clinical purposes. | | | | | |
| | | | | | | |
| | Test Performed at: | | | | | |
| | Quest Diagnostics Infectious Disease, 33608 Ortega Highway | Inc. | | | | |
| | San Juan Capistrano, CA 92675-2042 | H J Batterman M | D | | | |
| | | | | | Perform | ning Site: |
| | QCRL: QUEST DIA | GNOSTICS REFERENCE LAB CAP | ISTRANO 33608 O | rtega Highway Sar | i Juan Capistrano C | A 92675 |

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



NOVEMBER 2020

| Update Existing Test | | | | |
|--------------------------------|--|--|--|--|
| Effective Date | 11/16/2020 | | | |
| Name | Adenosine Deaminase, CSF | | | |
| Code | ADACS | | | |
| Interface Order Code | 3619540 | | | |
| Legacy Code | ADACSF | | | |
| Notes | Updates to volume requirements, stability and reference range. | | | |
| Required Testing Change | es | | | |
| Specimen Required | Collect CSF and send 0.5 mL fluid (0.2 mL minimum) frozen in a screw-capped plastic vial. | | | |
| Stability | Room temperature: 24 hours ; Refrigerated: 7 days; Frozen: 1 month | | | |
| Reference Range | 0.0 - 9.0 U/L | | | |

| Update Existing Test | |
|--------------------------------|---|
| Effective Date | 11/16/2020 |
| Name | Adenosine Deaminase, Pleural Fluid |
| Code | ADAPF |
| Interface Order Code | 3619500 |
| Legacy Code | ADAPF |
| Notes | Updates to volume requirements, stability and reference range. |
| Required Testing Change | 25 |
| Specimen Required | Collect pleural fluid and send 0.5 mL fluid (0.2 mL minimum) frozen in a screw-capped plastic vial. |
| Stability | Room temperature: 24 hours ; Refrigerated: 7 days; Frozen: 1 month |
| Reference Range | 0.0 - 30.0 U/L |

| Update Existing Test | | | |
|--------------------------------|---|--|--|
| Effective Date | 11/16/2020 | | |
| Name | Adenosine Deaminase, Peritoneal Fluid | | |
| Code | ADAPR | | |
| Interface Order Code | 3619520 | | |
| Legacy Code | ADAPER | | |
| Notes | Update to volume requirements, stability and reference range. | | |
| Required Testing Change | es | | |
| Specimen Required | Collect peritoneal fluid and send 0.5 mL fluid (0.2 mL minimum) frozen in a screw-capped plastic vial. | | |
| Stability | Room temperature: 24 hours ; Refrigerated: 7 days; Frozen: 1 month | | |
| Reference Range | 0.0 - 30.0 U/L | | |

LAST EDITED: 2020-10-13



| Update Existing Test | |
|--------------------------------|--|
| Effective Date | 11/16/2020 |
| Name | pH, Fecal |
| Code | APHF |
| Interface Order Code | 3621040 |
| Legacy Code | APHF |
| Notes | Updates to rejection criteria and stability requirements. |
| Required Testing Change | 25 |
| Rejection Criteria | Diapers, specimens in media or preservative, specimens containing barium, grossly bloody specimens |
| Stability | Room temperature: 1 hour; Refrigerated: 14 days; Frozen: 7 days |

| Update Existing Test | | | | | |
|--------------------------------|---|--|--|--|--|
| Effective Date | 11/23/2020 | | | | |
| Name | Arixtra (Fondaparinux) Level | | | | |
| Code | ARIX | | | | |
| Interface Order Code | 3423100 | | | | |
| Legacy Code | ARIXQ | | | | |
| Notes | Updates to stability requirements. | | | | |
| Required Testing Change | Required Testing Changes | | | | |
| Stability | Room temperature: Unacceptable; Refrigerated: Unacceptable; Frozen: 21 days | | | | |



| Update Existing Test | | | |
|--------------------------------|---|--|--|
| Effective Date | 11/23/2020 | | |
| Name | BCR-ABL1 Gn Rearrange Qnt PCR | | |
| Code | BCRPQ | | |
| Interface Order Code | 3514960 | | |
| Legacy Code | BCRPQ | | |
| Notes | Updates to volume requirements, alternate specimen, performed and turnaround times. | | |
| Required Testing Change | es | | |
| Specimen Required | Draw blood in a lavender EDTA tube. Send 5.0 mL whole blood (3.0 mL minimum) refrigerated in original collection tube. <i>Due to 72 hour stability samples must arrive at Warde Medical Laboratory the day of collection or within 18 hours of collection</i> . Ship to Warde Sunday through Thursday only . | | |
| Alternate Specimen | Bone marrow: EDTA, 3.0 mL, Sodium heparin, or ACD B Whole blood: Sodium heparin | | |
| Performed Days | Sunday - Saturday | | |
| Turnaround Time | 5 - 7 days | | |
| Reference Range | See report | | |



| Update Existing Test | Update Existing Test | | | | | |
|--------------------------------|---|--------|----|--|--|--|
| Effective Date | 11/16/2020 | | | | | |
| Name | Chlorpromazine (Thorazine) | | | | | |
| Code | | CHLPR | | | | |
| Interface Order Code | 3500800 | | | | | |
| Legacy Code | CHLPR | | | | | |
| Notes | New website entry, including test name and component name changes. | | | | | |
| Required Testing Change | es | | | | | |
| CPT Code(s) | 80342 (G0480) | | | | | |
| Specimen Requirements | | | | | | |
| Name | Chlorpromazine, Serum or Plasma | | | | | |
| Specimen Required | Draw blood in a plain red-top tube. Centrifuge, remove serum from cells and send 2.0 mL serum (0.5 mL minimum) frozen in a screw-capped plastic vial. | | | | | |
| Alternate Specimen | Plasma: EDTA, sodium heparin, potassium oxalate or sodium fluoride | | | | | |
| Stability | Room temperature: Unacceptable; Refrigerated: 14 days; Frozen: 14 days | | | | | |
| Performing Information | | | | | | |
| Methodology | Quantitative Liquid Chromatography – Tandem Mass Spectrometry | | | | | |
| Reference Range | Therapeutic Range: 30 – 300 ng/mL | | | | | |
| Reference Range | Toxic Level: ≥ 600 ng/mL | | | | | |
| Performed Days | Monday | | | | | |
| Turnaround Time | 9 - 11 days | | | | | |
| Performing Laboratory | ARUP Reference Laboratories | | | | | |
| Result Code | Name LOINC Code AOE/Prompt ² | | | | | |
| 3500800 | Chlorpromazine, Serum or Plasma | 3471-0 | No | | | |



| Update Existing Test | | | | | |
|-------------------------|---|---------------------|-------------------------|--|--|
| Effective Date | 10/13/2020 | | | | |
| Name | SARS Coron | avirus 2 IgG Antibo | ody | | |
| Code | | COVG | | | |
| Interface Order Code | | 3000226 | | | |
| Legacy Code | | COVG | | | |
| Notes | Update LOINC codes. | | | | |
| Required Testing Change | es | | | | |
| Result Code | Name | LOINC Code | AOE/Prompt ² | | |
| 3000227 | First Test? (Y/N/U) | 95417-2 | Yes | | |
| 3000228 | Employed in healthcare? (Y/N/U) | 95418-0 | Yes | | |
| 3000229 | Symptomatic as defined by CDC? (Y/N/U) | 95419-8 | Yes | | |
| 3000231 | If yes, then Date of Symptom Onset yyyymmdd | 11368-5 | Yes | | |
| 3000233 | Hospitalized? (Y/N/U) | 71477-4 | Yes | | |
| 3000237 | ICU? (Y/N/U) | 95420-6 | Yes | | |
| 3000239 | Resident in a congregate care setting? (Y/N/U) | 95421-4 | Yes | | |
| 3000241 | Pregnant? (Y/N/U) | 82810-3 | Yes | | |
| 3000242 | SARS Coronavirus 2 IgG Ab | Not available | No | | |
| 3000243 | SARS Coronavirus 2 IgG Ab Interpretation | 94563-4 | No | | |



| Update Existing Test | | | | | |
|--------------------------------|---|------------------|-------------------------|--|--|
| Effective Date | 10/13/2020 | | | | |
| Name | SARS-C | oV-2 Qualitative | | | |
| Code | | COVW | | | |
| Interface Order Code | | 3000089 | | | |
| Legacy Code | | COVW | | | |
| Notes | Update volume requirements and LOINC codes. | | | | |
| Required Testing Change | 25 | | | | |
| Specimen Required | One nasopharyngeal swab sent frozen in 3.0 mL viral transport media (1.0 mL minimum). | | | | |
| Result Code | Name | LOINC Code | AOE/Prompt ² | | |
| 3000091 | First Test? (Y/N/U) | 95417-2 | Yes | | |
| 3000092 | Employed in healthcare? (Y/N/U) | 95418-0 | Yes | | |
| 3000093 | Symptomatic as defined by CDC? (Y/N/U) | 95419-8 | Yes | | |
| 3000094 | if yes, then Date of Symptom Onset yyyymmdd | 11368-5 | Yes | | |
| 3000096 | Hospitalized? (Y/N/U) | 71477-4 | Yes | | |
| 3000097 | ICU? (Y/N/U) | 95420-6 | Yes | | |
| 3000098 | Resident in a congregate care setting? (Y/N/U) | 95421-4 | Yes | | |
| 3000099 | Pregnant? (Y/N/U) | 82810-3 | Yes | | |
| 3000066 | SARS-CoV-2 Qual RT PCR | 94500-6 | No | | |



| Update Existing Test | | | |
|-------------------------|---|-----------------|-------------------------|
| Effective Date | 11/16/2020 | | |
| Name | Cyanide | | |
| Code | | CYAN | |
| Interface Order Code | 3 | 680540 | |
| Legacy Code | (| CYANAR | |
| Notes | Various updates including test name and resu | lt component ch | anges. |
| Required Testing Change | 25 | | |
| Name | CYANIDE | WHOLE BLOOD | |
| Specimen Required | Draw blood in a gray top tube (sodium fluoride/Potassium Oxalate). Send 1.0 mL whole blood (0.4 mL minimum) CRITICAL FROZEN | | |
| Alternate Specimen | No alternate specimens. | | |
| Stability | Room temperature: Undetermined; Refrigerated: 24 hours; Frozen: 3 months | | |
| Methodology | Quantitative High Performance Liquid Chromatography/Tandem Mass Spectrometry | | |
| Reference Range | See report | | |
| Performed Days | Varies | | |
| Turnaround Time | 10 - 14 days | | |
| Result Code | Name | LOINC Code | AOE/Prompt ² |
| 3680540 | Cyanide, Whole Blood | 5634-1 | No |



| Update Existing Test | | | | |
|-------------------------|--|---|---|--|
| Effective Date | 10/13/2020 | | | |
| Name | Ustekinumab and Anti-Ustek Antibody, Serum | | | |
| Code | | FUKAU | | |
| Interface Order Code | | 3800208 | | |
| Legacy Code | | FUKAU | | |
| | Various updates to specimen requirements in | cluding test nam | e change and component name | |
| Notes | changes. | | | |
| Required Testing Change | ac | | | |
| Name | Ustekinumab Quantit | ation with Antib | odies. Serum | |
| | 80299 (Ustekinumab); 83520 (Anti-Ustekinum | | | |
| CPT Code(s) | | | | |
| | Patient Preperation: Collect immediately befo | Patient Preperation: Collect immediately before next dose of drug administration. | | |
| | | | | |
| Specimen Required | Draw blood in a plain red-top tube. Centrifuge | | n from cells and send 0.5 mL serum | |
| | (0.4 mL minimum) refrigerated in a screw-capped plastic vial. | | | |
| | Room temperature: Unacceptable; Refrigerated: 21 days; Frozen: 21 days | | | |
| Stability | ······································ | | | |
| Methodology | Enzyme-linked Immunosorbent Assay (ELISA) | | | |
| Performed Days | Tuesday, Friday | | | |
| | | | | |
| Turnaround Time | 3 - 6 days | | | |
| Result Code | Name | LOINC Code | AOE/Prompt ² | |
| 3800117 | Ustekinumab QN, S | 87408-1 | No | |
| 3800118 | Ustekinumab Ab, S | 87409-9 | No | |

| Update Existing Test | |
|--------------------------|---|
| Effective Date | 11/23/2020 |
| Name | Heparin Anti-Xa |
| Code | HEPXA |
| Interface Order Code | 3424250 |
| Legacy Code | HEPXAQ |
| Notes | Update to stability. |
| Required Testing Changes | |
| Stability | Room temperature: 14 days; Refrigerated: 14 days; Frozen: 21 days |



| Update Existing Test | |
|--------------------------------|--|
| Effective Date | 11/23/2020 |
| Name | IgVH Mutation, Cell-Based (CLL) |
| Code | IGVHM |
| Interface Order Code | 3400089 |
| Legacy Code | |
| Notes | |
| Required Testing Change | 25 |
| Specimen Required | Draw blood in a lavender EDTA. Send 5.0 mL whole blood (3.0 mL minimum) refrigerated in original collection tube. Due to 72 hour stability samples must arrive at Warde Medical Laboratory the day of collection, or within 18 hours of collection. Send Sunday through Thursday only. |
| Alternate Specimen | Whole blood: Sodium heparin Bone Marrow 3.0 mL EDTA |
| Performed Days | Sunday - Saturday |
| Turnaround Time | 8 - 10 days |



| Update Existing Test | |
|--------------------------|--|
| Effective Date | 10/27/2020 |
| Name | Interleukin 6 |
| Code | IL6 |
| Interface Order Code | 3000067 |
| Legacy Code | IL6 |
| Notes | Updates to reference range, rejection criteria and report. |
| Required Testing Changes | |
| Rejection Criteria | Plasma, moderate hemolysis, gross lipemia |
| Reference Range | < 6.4 |



EXAMPLE, REPORT WX0000003039 M 12/05/1988 31 Y

| | Immunoc | hemistry | | | |
|---------------|---------------|-------------------|------------|----------------------|-------------|
| | Colle | ected: 10/13/2020 | 17:15 | Received: 10/13/2020 | 17:15 |
| Test Name | <u>Result</u> | Flag | Ref-Ranges | <u>Units</u> | <u>Site</u> |
| Interleukin 6 | 65.0 | н | <6.4 | pg/mL | WMRL |

This test was performed using the Beckman Coulter Access IL-6 assay, which has been granted Emergency Use Authorization (EUA) by FDA, and is intended for use to assist in identifying severe inflammatory response in patients with confirmed COVID-19 illness to aid in determining the risk of intubation with mechanical ventilation, in conjunction with clinical findings and the results of other laboratory testing. The reference range for this assay is <6.4 pg/mL. PCR-confirmed COVID-19 patients that have Access IL-6 concentrations >35 pg/mL at presentation are at increased risk for intubation with mechanical ventilation during their hospitalization. Normal IL-6 results do not preclude development of a severe inflammatory response, and IL-6 should not be used as the sole basis for patient management decisions. Results must be combined with clinical observations, patient history, other laboratory parameters, and epidemiological information. FDA requires that fact sheets regarding this assay be provided to patients and healthcare workers.

A fact sheet for patients is available at the following URL: http://www.wardelab.com/Beckman IL6 Fact Sheet for Patients.pdf

A fact sheet for healthcare providers is available at the following URL: http://www.wardelab.com/Beckman IL6 Fact Sheet for HCP.pdf

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

Ordered By: CLIENT CLIENT WX0000000001595



| Update Existing Test | | |
|--------------------------------|---|--|
| Effective Date | 10/13/2020 | |
| Name | Borrelia burgdorferi Total IgG/IgM Antibody | |
| Code | LYME | |
| Interface Order Code | 3007580 | |
| Legacy Code | LYME | |
| Notes | Updated alternative specimens. | |
| Required Testing Change | 95 | |
| Alternate Specimen | Plasma: EDTA, Lithium heparin | |

| Update Existing Test | | | | |
|-------------------------|--|--|----------|--|
| Effective Date | 11/16/2020 | | | |
| Name | Protoporphyrin-RBC | | | |
| Code | | PPR | | |
| Interface Order Code | 34 | 423780 | | |
| Legacy Code | | PPRQ | | |
| Notes | Various updates to specimen requirements inc | Various updates to specimen requirements including test name and result component change. | | |
| NOTES | This test will now be performed at ARUP Refer | ence Laboratory | <i>.</i> | |
| Required Testing Change | es | | | |
| Name | Erythrocyte Porph | yrin (EP), Whol | e Blood | |
| | Draw blood in a lavender EDTA tube. Send 1.0 screw-capped plastic vial. | Draw blood in a lavender EDTA tube. Send 1.0 mL whole blood (0.5 mL minimum) refrigerated in a screw-capped plastic vial. | | |
| Specimen Required | PROTECT FROM LIGHT. | | | |
| Alternate Specimen | Whole blood: Dark blue EDTA, tan EDTA | | | |
| Rejection Criteria | Clotted samples, hemolysis, specimens not collected in EDTA | | | |
| Stability | Room temperature: Unacceptable; Refrigerated: 14 days; Frozen: 28 days | | | |
| Methodology | Fluorometry | | | |
| Reference Range | 0.0 - 35.0 ug/dL | | | |
| Performed Days | Monday, Wednesday, Friday | | | |
| Performing Laboratory | ARUP Reference Laboratory | | | |
| Result Code | Name LOINC Code AOE/Prompt ² | | | |
| 3423780 | Erythrocyte Porphyrin (EP) | 2898-5 | No | |



| Update Existing Test | |
|--------------------------|---|
| Effective Date | 11/2/2020 |
| Name | Propafenone, Serum/Plasma |
| Code | PROPQ |
| Interface Order Code | 3600079 |
| Legacy Code | |
| Notes | Updates to stability. |
| Required Testing Changes | |
| Stability | Room temperature: 30 days; Refrigerated: 30 days; Frozen: 15 months |

| Update Existing Test | |
|--------------------------------|--|
| Effective Date | 11/16/2020 |
| Name | Thiocyanate, Serum or Plasma |
| Code | THIOC |
| Interface Order Code | 3600033 |
| Legacy Code | |
| Notes | Updates to minimum volume, stability, reference range, performed and TAT. |
| Required Testing Change | es |
| Specimen Required | Draw blood in a plain red-top tube. Centrifuge, separate serum from cells within 2 hours, and send 1.0 mL serum (0.3 mL minimum) refrigerated in a screw-capped plastic vial. |
| Stability | Room temperature: 28 days; Refrigerated: 28 days; Frozen: 28 days |
| Reference Range | See report |
| Performed Days | Varies |
| Turnaround Time | 10 - 13 days |



| Update Existing Test | |
|--------------------------------|---|
| Effective Date | 11/16/2020 |
| Name | Hemosiderin, Urine |
| Code | UHEMS |
| Interface Order Code | 3680770 |
| Legacy Code | UHEMSIDAR |
| Notes | Updates to volume requirements, methodology, stability and reference range. |
| Required Testing Change | 25 |
| Specimen Required | Collect first morning urine. Mix well and sen d 4.0 mL unpreserved urine (1.0 mL minimum) frozen in a screw-capped plastic |
| Methodology | Qualitative microscopy |
| Reference Range | Absent |

| Update Existing Test | |
|--------------------------------|----------------------------------|
| Effective Date | 11/16/2020 |
| Name | Methaqualone by GC/MS Urine |
| Code | UMEQG |
| Interface Order Code | 3423020 |
| Legacy Code | UMETHAQ |
| Notes | Updates to methodology. |
| Required Testing Change | 25 |
| Methodology | Chromatography Mass Spectrometry |

| Update Existing Test | Update Existing Test | | | | | | | | |
|--------------------------|---|--|--|--|--|--|--|--|--|
| Effective Date | 11/2/2020 | | | | | | | | |
| Name | Warfarin, Serum/Plasma | | | | | | | | |
| Code WAR | | | | | | | | | |
| Interface Order Code | 3511200 | | | | | | | | |
| Legacy Code | WAR | | | | | | | | |
| Notes | Updates to stability. | | | | | | | | |
| Required Testing Changes | | | | | | | | | |
| Stability | Room temperature: 30 days; Refrigerated: 30 days; Frozen: 15 months | | | | | | | | |



| Inactivate Test With Rep | lacement | | | | | | |
|-------------------------------|---|--|-------------------------|--|--|--|--|
| Effective Date | 11, | /16/2020 | | | | | |
| | Inactivated Test | | | | | | |
| Name | Bupropion, | Bupropion, Serum or Plasma | | | | | |
| Code | | BUPSP | | | | | |
| Legacy Code ¹ | | BUPSP | | | | | |
| Interface Order Code | 3 | 3600034 | | | | | |
| Notes | | | | | | | |
| | | | | | | | |
| | Replacement Test | | | | | | |
| Name | Bupropion a | nd Metabolite, S | /P | | | | |
| Code | | BSEPL | | | | | |
| CPT Code(s) | 80338 (G0480) | | | | | | |
| Notes | | | | | | | |
| Specimen Requirements | | | | | | | |
| Specimen Required | Draw blood in a plain red-top tube. Contrifuge hours. Send 2.0 mL (0.5 minimum) frozen in a | • | | | | | |
| Alternate Specimen | Plasma: Lavender EDTA; sodum heparin, pota | Plasma: Lavender EDTA; sodum heparin, potassium oxalate or sodium fluoride. | | | | | |
| Rejection Criteria | SST tube, sodium citrate, ACD B, whole blood | | | | | | |
| Stability | Room temperature: Unacceptable; Refrigerated: Unacceptable; Frozen: 14 days | | | | | | |
| Performing Information | | | | | | | |
| Methodology | Quantitative Liquid Chromatography - Tandem Mass Spectrometry | | | | | | |
| Reference Range | Toxic Level: ≥ 4 Hydroxybuprop Therapeutic Rar | Bupropion: Therapeutic Range: 10 - 100 ng/mL Toxic Level: ≥ 400 ng/mL Hydroxybuproprion: Therapeutic Range: 850 - 1500 ng/mL | | | | | |
| Performed Days | Monday | Toxic Level: ≥ 2000 ng/mL Monday | | | | | |
| Turnaround Time | 9 - 11 days | | | | | | |
| Performing Laboratory | ARUP Refe | rence Laboratory | / | | | | |
| Interface Information | | | | | | | |
| Legacy Code ¹ | | BSEPL | | | | | |
| Interface Order Code | 3 | 600194 | | | | | |
| Result Code | Name | LOINC Code | AOE/Prompt ² | | | | |
| 3600195 | Bupropion | 6706-6 | No | | | | |
| 3600196 | Hydroxybupropion | 9418-5 | No | | | | |



EXAMPLE, REPORT WX0000003039 M 12/05/1988 31 Y

| | | | DeferrelT | | | | | |
|---|---|------------------|---|--------------------------|----------------|-----------------|---------------------------------|------------------------------|
| | | | Referral T | esting ed: 10/13/2020 |) 17.16 | Received: | 10/13/2020 | 17.16 |
| Test Name | | | Result | <u>Flag</u> | Ref-Ranges | | Jnits | Site |
| <u>1631 Name</u> | | | <u>itesuit</u> | nay | Iteritanges | <u> </u> | <u>/////5</u> | one |
| Bupropio | on and me | tabolite, S/P | | | | | | |
| Bupropion | | | 105 | AB | 10-100 | n | g/mL | ARRL |
| | INTERPRETIN | JE INFORMATION | I: Bupropion and Meta or Plasma | abolite, Se | rum | | | |
| | Therapeutic 10- 100 ng/ | - | | | | | | |
| | Toxic: Grea | ater than or e | equal to 400 ng/mL | | | | | |
| Bupropion is an antidepressant drug indicated for the treatment of major depressive disorder. The drug is also used as treatment for smoking cessation. The therapeutic range is based on serum pre-dose (trough) draw at steady-state concentration. Bupropion is primarily metabolized to hydroxybupropion, which has about 50% of the activity of the parent drug. The pharmacokinetics of bupropion and metabolite are influenced by drug-drug interactions that affect CYP2B6 metabolism. Patients with renal or hepatic impairment may require a dose reduction. Adverse effects may include seizures, hypertension, nausea, vomiting, neuropsychiatric and cardiac abnormalities. | | | | | | | | |
| Hydroxybupi | - | ance Statement | B: www.aruplab.com/ 1655 | /CS AB | 850-1500 | n | g/mL | ARRL |
| | INTERPRETIN Therapeutic 850-1500 ng | c Range: g/mL | I: Bupropion and Meta or Plasma equal to 2000 ng/mL | | | | | |
| | | | | ARRL: ARUP | PREFERENCE LAB | 500 Chipeta Way | Perforr Salt Lake City UT 84 | <u>ning Site:</u> 1081221 |

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

Ordered By: CLIENT CLIENT WX0000000001595



| Inactivate Test With Rep | placement | | | | | |
|---------------------------|---|--|-------------------------|--|--|--|
| Effective Date | 1: | 1/16/2020 | | | | |
| | Inactivated Test | | | | | |
| Name | Coccidioides Ab (ID) | | | | | |
| Code | | COCID | | | | |
| Legacy Code ¹ | CC | CABIDARP | | | | |
| Interface Order Code | | 3680490 | | | | |
| Notes | For CSF sample type, su | suggested replacement is COCSF. | | | | |
| | Replacement Test | t | | | | |
| Name | | Ab by CF & ID, Se | rum | | | |
| Code | | COSER | | | | |
| CPT Code(s) | 86635 x 2 | | | | | |
| Notes | | | | | | |
| Specimen Requirements | | | | | | |
| Specimen Required | Draw blood in a SST. Centrifuge, separate ser Send 2.0 mL serum (0.6 mL minimum) refrige | | | | | |
| Alternate Specimen | | | | | | |
| Rejection Criteria | Other body fluids. Hemolyzed, icteric, or lipe | iolyzed, icteric, or lipemic specimens | | | | |
| Stability | Room temperature; 48 hours; Refrigerated: 2 | 2 weeks; Frozen: 1 year | | | | |
| Performing Information | | | | | | |
| Methodology | Semi-quantitative Complemen | t Fixation/Qualita | tive Immunodiffusion | | | |
| Reference Range | Coccidioides Antibody Coccidioides immitis A | , | lone detected | | | |
| Performed Days | Sunday – Saturday | | | | | |
| Turnaround Time | 4 - 8 days | | | | | |
| Performing Laboratory | ARUP Reference Laboratory | | | | | |
| Interface Information | | | | | | |
| Legacy Code ¹ | | COSER | | | | |
| Interface Order Code | | 3600202 | | | | |
| Result Code | Name | LOINC Code | AOE/Prompt ² | | | |
| 3600199 | Coccidioides Immitis Abs, Preciptin | 5095-5 | No | | | |
| 3600200 | Coccidioides Antibody by CF | 33380-7 | No | | | |



EXAMPLE, REPORT WX0000003039 M 12/05/1988 31 Y

| | Referral T | esting | | | | |
|--|--|---|-------------------|-----------|--------------|-------------|
| | Collecte | ed: 10/13/2020 |) 17:19 | Received: | 10/13/2020 | 17:19 |
| <u>Test Name</u> | <u>Result</u> | Flag | Ref-Ranges | Ĺ | <u>Jnits</u> | <u>Site</u> |
| Coccidioides Ab by CF & ID, | Serum | | | | | |
| Coccidioides Immitis Abs, Preciptin | Detected | AB | None Detect | ed | | ARR |
| INTERPRETIVE INFORMATI | ION: Coccidioides immit | is Antibod | ies | | | |
| - | Immunodiffusion | | | | | |
| the onset of primary i recent infection. IgM | may be detected 1 to 3 infection and may sugge antibody is rarely det ay reappear with relaps ed cases. | est active of the sected 6 mod | or | | | |
| Immunodiffusion Comple represent active or pa | be demonstrated in resement Fixation (IDCF) a ast infection. Negative e out current infection 1:16 | ntigen and fungal | | | | ARF |
| | CON: Coccidioides Ab by | Complemen | t | | | |
| greater than 30 percer pulmonary disease have tests. Titers of less indicate past infectio anticoccidiodal CF ant indicate disseminated follow therapy. Antibo for coccidioidal menir | st or current infection of cases with chroni e negative Complement F than 1:32 (even as low on or self-limited dise tibody titers in excess infection. CF serology ody in CSF is considered ngitis, although 10 per bidal meningitis will r | c residual ixation (C as 1:2) ma ase; of 1:16 ma may be used diagnost ccent of | ay ay ed to | | | |

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

Ordered By: CLIENT CLIENT WX0000000001595



| Inactivate Test With Rep | lacement | | | | | |
|--------------------------|---|--|------------------------------------|--|--|--|
| Effective Date | 10/8/2020 | | | | | |
| | Inactivated Test | | | | | |
| Name | Microsat | ellite Instability (MSI), | Tissue | | | |
| Code | | MSI | | | | |
| Legacy Code ¹ | | MSI | | | | |
| Interface Order Code | | 3807100 | | | | |
| Notes | | | | | | |
| | | | | | | |
| | Replacemer | nt Test | | | | |
| Name | Micro | satellite Instability, Tur | nor | | | |
| Code | | TMSI | | | | |
| CPT Code(s) | 81301, 88381 ZB1VG | | | | | |
| Notes | Pathology report must accompany spec | cimen in order for testi | ng to be performed. | | | |
| Specimen Requirements | | | | | | |
| Specimen Required | Send tumor tissue block. Approximately block with corresponding hematoxylin with H and E and 5 unstained, nonbake | and reosin (H and E) sli | des (preferred) or 1 slide stained | | | |
| Alternate Specimen | Formalin-fixed, paraffin-embedded (FF | PE) prepared cell block | or unstained slides. | | | |
| Rejection Criteria | Decalcified specimens, Low tumor perc fresh tissue Cytology smears | Decalcified specimens, Low tumor percentage, insufficient amount of tumor nonformalin fixed, Tresh tissue Cytology smears | | | | |
| Stability | Room temperature: preferred; Refriger | oom temperature: preferred; Refrigerated: Unacceptable; Frozen: Unacceptable | | | | |
| Performing Information | | | | | | |
| Methodology | Polym | erase Chain Reaction (F | PCR) | | | |
| Reference Range | | See report. | | | | |
| Performed Days | Sunday - Saturday | | | | | |
| Turnaround Time | 3 - 4 days | | | | | |
| Performing Laboratory | Μ | ayo Clinic Laboratories | | | | |
| Interface Information | | | | | | |
| Legacy Code ¹ | | TMSI | | | | |
| Interface Order Code | | 3800241 | | | | |
| Result Code | Name | LOINC Code | AOE/Prompt ² | | | |
| 3800242 | Result Summary | 50397-9 | No | | | |
| 3800243 | Result | 43368-0 | No | | | |
| 3800244 | Interpretation | 69047-9 | No | | | |
| 3800245 | Specimen | 31208-2 | No | | | |
| 3800246 | Source | 31208-2 | No | | | |
| | Tissue ID | | | | | |



| | 3800248 | Release By | 18771-6 | No |
|--|---------|------------|---------|----|
|--|---------|------------|---------|----|



Example Client, XYZ123 1234 Warde Road ANN ARBOR MI 48108

EXAMPLE, REPORT WX0000002904 F 03/11/1991 29 Y

| | | Referral | • | | | | |
|-------------|--|--|---|-------------------|-----------|--------------|-------------|
| | | Colle | cted: 09/15/2020 | 10:30 | Received: | 09/15/2020 | 10:30 |
| Test Name | <u>e</u> | <u>Result</u> | <u>Flag</u> | Ref-Ranges | <u> </u> | <u>Jnits</u> | <u>Site</u> |
| Micros | atellite Instability, Tum | or | | | | | |
| Result Sur | mmary | MSI-H | | | | | MAYO |
| Result | | SEE BELOW | | | | | MAYC |
| | Provided diagnosis: | | | | | | |
| | MSI: MSI-H (instabilit markers) | y observed in 7 of 7 | informative | | | | |
| Interpretat | tion | SEE BELOW | | | | | MAYC |
| | the tumor. The molecul defective DNA mismatch be associated with sev MSH6, PMS2) and differ (epigenetic, somatic, majority of sporadic c mismatch repair (appro epigenetic alterations the MLH1 promoter. | repair is very hete eral different genes ent mechanisms of ge and germline alterat olon cancers with de ximately 90%) are ca | rogeneous and (MLH1, MSH2, ne inactivati ion). The fective DNA used by somat | l can lon | | | |
| | PROGNOSTIC IMPLICATION Colon cancers with def have a significantly b with intact mismatch r 20;23(3):609-18 (PMID | ective DNA mismatch etter prognosis comp epair (MSS) (J Clin | ared to those | e | | | |
| | THERAPEUTIC IMPLICATIO Current data suggest t defective DNA mismatch respond to treatment w therapies (Science. 20 28596308); J Clin Onco 29355075)). Stage II p characterized by the p repair (MSI-H) are unl treatment with 5-FU ba 10;28(20):3219-26 (PMI | hat advanced stage s repair (MSI-H) are ith immunotherapies 17 Jul 28;357(6349): 1. 2018 Jan 20:JCO20 atients with colon c resence of defective ikely to derive bene sed therapy (J Clin | more likely t such as anti- 409-413(PMID 17769901 (PMI ancers DNA mismatch fit from | 10 -PD-1 ID | | | |
| | HEREDITARY IMPLICATION These results increase HNPCC/Lynch syndrome b | the risk that this | | | | | |

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

Ordered By: CLIENT CLIENT WX00000000001456



LABORATORY REPORT

Example Client, XYZ123 1234 Warde Road ANN ARBOR MI 48108 **EXAMPLE, REPORT** WX0000002904 F 03/11/1991 29 Y

| | - / · | | | | | |
|------------------|---|---|---|------------|--------------|-------------|
| | Referral | • | | | | |
| | Colle | cted: 09/15/2020 | 10:30 | Received: | 09/15/2020 | 10:30 |
| <u>Test Name</u> | Result phenotype can be associated with a germlin of the DNA mismatch repair genes. The use immunohistochemistry (IHC / MMR Protein, I followed by germline mutational analysis, evaluate the possibility of HNPCC/Lynch sy individual. A genetic consult may be of be | of HC Only, tumo can further ndrome in thi | or), | <u>s L</u> | <u>Inits</u> | <u>Site</u> |
| | ADDITIONAL INFORMATION Consideration of these results, in light o information, may aid in clinical managemen this patient. | | | | | |
| | Of note, the literature suggests that MSI neoadjuvant chemoradiated tumor specimens status and lead to an erroneous interpreta (Int J Radiat Oncol Biol Phys. 2007 68(5): | may influence tion of resul | | | | |
| | These data should be interpreted in the co histopathologic findings. A surgical patho be ordered separately. If immunohistochemi the mismatch repair proteins was also orde specimen, the results will be reported sep test code IHC (IHC / MMR Protein, IHC Only questions regarding the interpretation of results, please contact the Genomics Labor 1-800-533-1710. | logy consult stry (IHC) fo red on this arately under , Tumor). For IHC and MSI | or c | | | |
| | ADDITIONAL INFORMATION- Microscopic examination was performed by a identify areas of normal and tumor for enr macrodissection. A PCR-based assay is used tumor microsatellite instability (TMSI) wi mononucleotide repeat markers (BAT25, BAT2 and NR21). The tumor tissue is classified (instability detected in 0 or 1 out of 5 m (instability in 2 or more of 5 markers tes sensitivity of the method being used, micr instability cannot be reliably detected in containing less than 30% tumor DNA. Sample macrodissected to enrich for tumor cells, than 30% rejected from further testing. Test results should be interpreted in the clinical findings, family history, and oth data. If results obtained do not match oth laboratory findings, please contact the laboratory | pathologist ichment by to test for th the use of 6, Mono27, NF as MSS arkers), or N ted). Due to osatellite samples s are routine with those le context of er laboratory er clinical co | to 5 324, 4SI-H the ely ess | | | |

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

Ordered By: CLIENT CLIENT WX00000000001456



LABORATORY REPORT

Example Client, XYZ123 1234 Warde Road ANN ARBOR MI 48108 **EXAMPLE, REPORT** WX0000002904 F 03/11/1991 29 Y

| | | Referral Testin | ıg | | | | |
|-------------------------|---|---------------------------------------|---------|------------|-----------|--------------|--------------|
| | | Collected: 09/ | 15/2020 | 10:30 | Received: | 09/15/2020 | 10:30 |
| <u>Test Name</u> | <u>R</u> possible interpretation. Misinte occur if the information provide incomplete. | rpretation of res | | Ref-Ranges | <u> </u> | <u>Jnits</u> | <u>Site</u> |
| Specimen | This test was developed and its determined by Mayo Clinic in a m requirements. This test has not the U.S. Food and Drug Administr T | anner consistent been cleared or a | with C | CLIA | | | ΜΑΥΟ |
| Source | | | | | | | MAYO |
| Tissue ID Release By | | 234 SEE BELOW | | | | | MAYO MAYO |
| | RESULT: Irene Vehrenkamp | | | | | | |
| | Test Performed by: Mayo Clinic Laboratories - Roche 200 First Street SW, Rochester, Lab Director: William G. Morice | MN 55905 | 24D04 | 104292 | | | |



| Inactivate Test With Rep | lacement | | | | | | |
|--------------------------|---|--|-------------------------|--|--|--|--|
| Effective Date | 10 |)/27/2020 | | | | | |
| | Inactivated Test | Inactivated Test | | | | | |
| Name | N-methyl-D-Aspartate Rece | ptor Ab IgG Serur | n w Reflex toTiter | | | | |
| Code | | NMDGR | | | | | |
| Legacy Code ¹ | | NMDGR | | | | | |
| Interface Order Code | | 3516150 | | | | | |
| Notes | | | | | | | |
| | | | | | | | |
| | Replacement Test | | | | | | |
| Name | N-methyl-D-Asp | artate Rcptr Ab, I | gG, Ser | | | | |
| Code | | NMETD | | | | | |
| CPT Code(s) | 86255, plus 86256 if reflexed to titer, at an ac | lditional fee | | | | | |
| CFT COde(S) | | | | | | | |
| Notes | | | | | | | |
| Specimen Requirements | | | | | | | |
| Specimen Required | • | Draw blood in a SST. Centrifuge, remove serum from cells within 2 hours of collection, send 1.0 mL serum (0.2 mL minimum) refrigerated in a screw-capped plastic vial. | | | | | |
| Rejection Criteria | CSF or plasma Contaminated, hemolyzed, or severely lipemi Room temperature: 48 hours; Refrigerated: 1 | Contaminated, hemolyzed, or severely lipemic specimens. | | | | | |
| Stability | | | , | | | | |
| Performing Information | | | | | | | |
| Methodology | Semi-quantitative In | | t Antibody | | | | |
| Reference Range | | < 1:10 | | | | | |
| Performed Days | Sunday - Saturday | | | | | | |
| Turnaround Time | 2 - 4 days | S | | | | | |
| Performing Laboratory | ARUP Refe | erence Laboratory | / | | | | |
| Interface Information | | | | | | | |
| Legacy Code ¹ | | NMETD | | | | | |
| Interface Order Code | | 3600159 | | | | | |
| Result Code | Name | LOINC Code | AOE/Prompt ² | | | | |
| 3600159 | N-methyl-D-Aspartate Receptor Ab, Serum | 80221-5 | No | | | | |
| 3600168 | Bill_NMDA Titer | Not available | No | | | | |



Example Client, XYZ123 1234 Warde Road ANN ARBOR MI 48108 **EXAMPLE, REPORT** WX0000003096 M 07/18/2014 6 Y

| | Referral T | esting | | | | |
|--|---|--|------------|------------|--------------|-------------|
| | Collect | ed: 09/21/2020 | 0 10:15 | Received: | 09/21/2020 | 10:15 |
| Test Name | <u>Result</u> | Flag | Ref-Ranges | <u>s U</u> | <u>Jnits</u> | <u>Site</u> |
| N-methyl-D-Aspartate Rcptr Ab, Ig | G, Ser | | | | | |
| N-methyl-D-Aspartate Receptor Ab, Serum | <1:10 | | <1:10 | | | ARUP |
| INTERPRETIVE INFORMATION: N- Serum Anti-NMDA receptor IgG antik patients with autoimmune lim with or without associated t levels may be associated wit therefore, clinical correlat considered. A negative test diagnosis of autoimmune limk Test developed and character Laboratories. See Compliance | body is found in mbic encephalitis tumor. Decreasing th therapeutic re- tion must be stro result does not pic encephalitis ristics determine | a subset o s and may o g antibody esponse; ongly rule out a ed by ARUP | f ccur | | | |
| Performed By: ARUP Laboraton 500 Chipeta Way Salt Lake City, UT 84108 | ries | - ap 100 • 00m, | | | | |
| Laboratory Director: Tracy 3 Bill_NMDA Titer | .TNP | | | | | ARRL |
| | | | | | Perform | ning Site: |

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

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



Example Client, XYZ123 1234 Warde Road ANN ARBOR MI 48108 EXAMPLE, REPORT WX0000003159 F 08/09/2006 14 Y

| Referral Testing | | | | | | |
|--|---------------|---------------|------------|------------|--------------|-------------|
| | Collected | 1: 09/21/2020 | 0 10:16 | Received: | 09/21/2020 | 10:16 |
| <u>Test Name</u> | <u>Result</u> | <u>Flag</u> | Ref-Range: | <u>s l</u> | <u>Jnits</u> | <u>Site</u> |
| N-methyl-D-Aspartate Rcptr Ab, IgG, Ser | | | | | | |
| N-methyl-D-Aspartate Receptor Ab, Serum | 1:40 | Н | <1:10 | | | ARUP |
| INTERPRETIVE INFORMATION: N-methyl-D-Aspartate Receptor Ab, Serum Anti-NMDA receptor IgG antibody is found in a subset of patients with autoimmune limbic encephalitis and may occur with or without associated tumor. Decreasing antibody levels may be associated with therapeutic response; therefore, clinical correlation must be strongly considered. A negative test result does not rule out a diagnosis of autoimmune limbic encephalitis. Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS Performed By: ARUP Laboratories 500 Chipeta Way Salt Lake City, UT 84108 Laboratory Director: Tracy I. George, MD Bill_NMDA Titer Billed Performed By: ARUP Laboratories 500 Chipeta Way | | | | | | ARUP |
| Salt Lake City, UT 84108 Laboratory Director: Tracy I. | George, MD | | | | | |

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