

Immediate Change HOTLINE: Effective **November 5, 2018**

### MEDICARE COVERAGE OF LABORATORY TESTING

Please remember when ordering laboratory tests that are billed to Medicare/Medicaid or other federally funded programs, the following requirements apply:

1. Only tests that are medically necessary for the diagnosis or treatment of the patient should be ordered. Medicare does not pay for screening tests except for certain specifically approved procedures and may not pay for non-FDA approved tests or those tests considered experimental.
2. If there is reason to believe that Medicare will not pay for a test, the patient should be informed. The patient should then sign an Advance Beneficiary Notice (ABN) to indicate that he or she is responsible for the cost of the test if Medicare denies payment.
3. The ordering physician must provide an ICD-10 diagnosis code or narrative description, if required by the fiscal intermediary or carrier.
4. Organ- or disease-related panels should be billed only when all components of the panel are medically necessary.
5. Both ARUP- and client-customized panels should be billed to Medicare only when every component of the customized panel is medically necessary.
6. Medicare National Limitation Amounts for CPT codes are available through the Centers for Medicare & Medicaid Services (CMS) or its intermediaries. Medicaid reimbursement will be equal to or less than the amount of Medicare reimbursement.

The CPT Code(s) for test(s) profiled in this bulletin are for informational purposes only. The codes reflect our interpretation of CPT coding requirements, based upon AMA guidelines published annually. CPT codes are provided only as guidance to assist you in billing. ARUP strongly recommends that clients reconfirm CPT code information with their local intermediary or carrier. CPT coding is the sole responsibility of the billing party.

The regulations described above are only guidelines. Additional procedures may be required by your fiscal intermediary or carrier.

Hotline Page #	Test Number	Summary of Changes by Test Name	Name Change	Methodology	Performed/Reported Schedule	Specimen Requirements	Reference Interval	Interpretive Data	Note	CPT Code	Component Change	Other Interface Change	New Test	Inactive
15	<a href="#">0091533</a>	Acetaminophen and Oxycodone Quantitative, Serum or Plasma												x
5	<a href="#">2014521</a>	Acetaminophen Quantitative, Urine			x									
5	<a href="#">0091366</a>	Acetazolamide Quantitative, Serum or Plasma			x									
5	<a href="#">0091328</a>	Acyclovir, Serum or Plasma			x									
5	<a href="#">0091204</a>	Allopurinol and Metabolite, Serum or Plasma												
5	<a href="#">0091195</a>	Amantadine Quantitative, Serum or Plasma			x									
5	<a href="#">0091236</a>	Amoxapine and Metabolite Quantitative, Serum or Plasma			x									

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5	<a href="#">2014043</a>	Amphetamines (D/L Differentiation), Urine			x									
5	<a href="#">2008682</a>	Anabolic Steroids, Urine - Screen with Reflex to Confirmation			x									
5	<a href="#">0091570</a>	Aspirin and Oxycodone Quantitative, Serum or Plasma			x									
5	<a href="#">0091282</a>	Barium Quantitative, Serum or Plasma			x									
6	<a href="#">0091165</a>	Barium Quantitative, Urine			x									
6	<a href="#">2011411</a>	Bath Salts Panel, Serum or Plasma			x									
6	<a href="#">2008650</a>	Bath Salts Panel, Urine			x									
6	<a href="#">3000136</a>	Benzene Quantitative - Whole Blood			x									
6	<a href="#">0091330</a>	Boron Quantitative, Serum or Plasma			x									
6	<a href="#">2014493</a>	Bupivacaine Quantitative, Serum or Plasma			x									
6	<a href="#">2014027</a>	Calcium, RBC			x									
6	<a href="#">0091352</a>	Carbidopa and Levodopa Quantitative, Serum or Plasma			x									
6	<a href="#">2014505</a>	Chromium, RBC			x									
6	<a href="#">2003302</a>	Citalopram Quantitative, Serum or Plasma			x									
7	<a href="#">0091362</a>	Clonidine, Serum or Plasma			x									
7	<a href="#">0091223</a>	Clonidine, Urine			x									
15	<a href="#">2009380</a>	Complement C3 Nephritic Factor												x
15	<a href="#">0099078</a>	Complement Component 1 Functional												x
15	<a href="#">0099131</a>	Complement Component 6 Functional												x
15	<a href="#">0099121</a>	Complement Component 7 Functional												x
15	<a href="#">0099133</a>	Complement Component 8 Functional												x
15	<a href="#">0099120</a>	Complement Component 9 Functional												x
15	<a href="#">2003304</a>	Complement Component Level 3a												x
15	<a href="#">2003180</a>	Complement Component Level 4a												x
15	<a href="#">0099072</a>	Complement Component Level 6												x
15	<a href="#">2009416</a>	Complement Factor H Level (B-1H)												x
15	<a href="#">2009382</a>	Complement Factor I												x
7	<a href="#">2007252</a>	Copper, RBC			x									
7	<a href="#">0091301</a>	Diazoxide Quantitative, Serum or Plasma			x									
7	<a href="#">2007763</a>	Diuretic Survey Quantitative, Serum or Plasma			x									
7	<a href="#">2008603</a>	<i>ERBB2 (HER2/neu)</i> Gene Amplification by FISH with Reflex, Tissue	x	x	x				x	x		x		

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7	<a href="#">0091319</a>	Ethambutol Quantitative, Serum or Plasma			x									
8	<a href="#">0091116</a>	Flunitrazepam and Metabolites, Serum or Plasma, Screen with Reflex to Confirmation/Quantitation			x									
8	<a href="#">3000183</a>	Flunitrazepam and Metabolites, Urine Screen with Reflex to Confirmation/Quantitation			x									
8	<a href="#">0091341</a>	Fluoride Quantitative, Serum or Plasma			x									
8	<a href="#">2014180</a>	Fluoxetine and Metabolite Quantitative, Serum or Plasma			x									
8	<a href="#">0091234</a>	Fluvoxamine Quantitative, Serum or Plasma			x									
8	<a href="#">0091517</a>	Formic Acid, Serum or Plasma			x									
8	<a href="#">0091263</a>	Furosemide Quantitative, Serum or Plasma			x									
8	<a href="#">0091203</a>	Heroin - Screen with Reflex to Confirmation/Quantitation - Serum or Plasma			x									
8	<a href="#">0091586</a>	Heroin - Screen with Reflex to Confirmation/Quantitation - Urine			x									
9	<a href="#">2008326</a>	Hydrocarbon and Oxygenated Volatiles Panel, Blood			x									
9	<a href="#">2014183</a>	Ibuprofen Quantitative, Serum or Plasma			x									
9	<a href="#">0091507</a>	Ketamine and Metabolite Quantitative, Serum or Plasma			x									
9	<a href="#">2011413</a>	Lead, RBC			x									
9	<a href="#">0091197</a>	Lidocaine and Metabolite Quantitative, Serum or Plasma			x									
9	<a href="#">0091200</a>	LSD, Serum or Plasma - Screen with Reflex to Confirmation/Quantitation			x									
9	<a href="#">0091224</a>	LSD, Urine - Screen with Reflex to Confirmation/Quantitation			x									
10	<a href="#">3000394</a>	Malignancy Risk Assessment, Pelvic Mass, OVA1											x	
10	<a href="#">2007254</a>	Manganese, RBC			x									
15	<a href="#">0098816</a>	Melatonin												x
10	<a href="#">3000248</a>	Meperidine and Metabolite Quantitative, Urine			x									
10	<a href="#">0091272</a>	Mercury, Hair			x									
10	<a href="#">0092390</a>	Metformin Quantitative, Serum or Plasma			x									
10	<a href="#">0091090</a>	Methaqualone Quantitative, Serum or Plasma			x									
10	<a href="#">2006299</a>	Methaqualone Quantitative, Urine			x									
11	<a href="#">3000251</a>	Methsuximide Metabolite, Serum or Plasma			x									
11	<a href="#">3000253</a>	Methylphenidate and Metabolite Quantitative, Serum or Plasma			x									
11	<a href="#">0091453</a>	Metoprolol Quantitative, Serum or Plasma			x									

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11	<a href="#">2013014</a>	Mitotane, Serum or Plasma			x									
11	<a href="#">0091280</a>	Molybdenum Quantitative, Serum or Plasma			x									
11	<a href="#">2013025</a>	Perampanel Quantitative, Serum or Plasma			x									
11	<a href="#">2013008</a>	Periprosthetic Joint Infection (PJI) Detection (Synovasure)				x								
11	<a href="#">0091565</a>	Phenobarbital, Free, Serum or Plasma			x									
11	<a href="#">0091551</a>	Phenobarbital, Total/Free/Bound, Serum or Plasma			x									
12	<a href="#">2014041</a>	Potassium, Total, RBC			x									
12	<a href="#">0091538</a>	Propylene Glycol, Serum or Plasma			x									
12	<a href="#">2013011</a>	Selenium, RBCs			x									
12	<a href="#">0091222</a>	Silver Quantitative, Serum or Plasma			x									
12	<a href="#">0091228</a>	Silver, Urine			x									
12	<a href="#">0091229</a>	Silver, Whole Blood			x									
12	<a href="#">2008426</a>	<i>SLCO1B1</i> , 1 Variant	x				x				x			
13	<a href="#">0091574</a>	Strychnine, Serum or Plasma			x									
13	<a href="#">0091568</a>	Sulfhemoglobin Quantitative, Whole Blood			x									
13	<a href="#">3000508</a>	Synthetic Cannabinoid Metabolites, Qualitative, Urine			x									
13	<a href="#">3000584</a>	Tapentadol, Free, Serum or Plasma			x									
13	<a href="#">0091386</a>	Temazepam and Metabolite Quantitative, Serum or Plasma			x									
13	<a href="#">0091585</a>	Tin Total Quantitative, Serum or Plasma			x									
13	<a href="#">0091555</a>	Tin, Total, Whole Blood			x									
13	<a href="#">0091434</a>	Titanium Quantitative, Serum or Plasma			x									
13	<a href="#">0091399</a>	Trihexyphenidyl Quantitative, Serum or Plasma			x									
13	<a href="#">0091396</a>	Trimethoprim, Serum or Plasma			x									
14	<a href="#">0091286</a>	Vanadium Quantitative, Serum or Plasma			x									
14	<a href="#">2011039</a>	Vigabatrin Quantitative, Serum or Plasma			x									
14	<a href="#">0090805</a>	Warfarin Quantitative, Serum or Plasma			x									
14	<a href="#">2006460</a>	Zinc, RBC			x									

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<a href="#"><u>2014521</u></a>	<b>Acetaminophen Quantitative, Urine</b>	<b>ACETA U</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	4-7 days	
<a href="#"><u>0091366</u></a>	<b>Acetazolamide Quantitative, Serum or Plasma</b>	<b>ACETAZOLAM</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	4-7 days	
<a href="#"><u>0091328</u></a>	<b>Acyclovir, Serum or Plasma</b>	<b>ACYCLOV</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>0091204</u></a>	<b>Allopurinol and Metabolite, Serum or Plasma</b>	<b>ALLOPUR SP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>0091195</u></a>	<b>Amantadine Quantitative, Serum or Plasma</b>	<b>AMANTADIN</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	4-7 days	
<a href="#"><u>0091236</u></a>	<b>Amoxapine and Metabolite Quantitative, Serum or Plasma</b>	<b>AMOXAPINE</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>2014043</u></a>	<b>Amphetamines (D/L Differentiation), Urine</b>	<b>AMP DLDIFF</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>2008682</u></a>	<b>Anabolic Steroids, Urine - Screen with Reflex to Confirmation</b>	<b>STEROIDS</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-17 days	
<a href="#"><u>0091570</u></a>	<b>Aspirin and Oxycodone Quantitative, Serum or Plasma</b>	<b>PERCODAN S</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>0091282</u></a>	<b>Barium Quantitative, Serum or Plasma</b>	<b>BARIUM SP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	4-7 days	

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<a href="#"><u>0091165</u></a>	<b>Barium Quantitative, Urine</b>	<b>BARIUM URN</b>
Performed:	Varies	
Reported:	7-10 days	
<a href="#"><u>2011411</u></a>	<b>Bath Salts Panel, Serum or Plasma</b>	<b>BATHSLT SP</b>
Performed:	Varies	
Reported:	7-10 days	
<a href="#"><u>2008650</u></a>	<b>Bath Salts Panel, Urine</b>	<b>BATH SALTS</b>
Performed:	Varies	
Reported:	7-10 days	
<a href="#"><u>3000136</u></a>	<b>Benzene Quantitative - Whole Blood</b>	<b>BENZE BLD</b>
Performed:	Varies	
Reported:	4-7 days	
<a href="#"><u>0091330</u></a>	<b>Boron Quantitative, Serum or Plasma</b>	<b>BORON SP</b>
Performed:	Varies	
Reported:	7-10 days	
<a href="#"><u>2014493</u></a>	<b>Bupivacaine Quantitative, Serum or Plasma</b>	<b>BUPIVAC SP</b>
Performed:	Varies	
Reported:	4-7 days	
<a href="#"><u>2014027</u></a>	<b>Calcium, RBC</b>	<b>CA RBC</b>
Performed:	Varies	
Reported:	4-7 days	
<a href="#"><u>0091352</u></a>	<b>Carbidopa and Levodopa Quantitative, Serum or Plasma</b>	<b>SINEMET SP</b>
Performed:	Varies	
Reported:	7-10 days	
<a href="#"><u>2014505</u></a>	<b>Chromium, RBC</b>	<b>CR RBC</b>
Performed:	Varies	
Reported:	7-10 days	
<a href="#"><u>2003302</u></a>	<b>Citalopram Quantitative, Serum or Plasma</b>	<b>CITALO</b>
Performed:	Varies	
Reported:	4-7 days	

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<a href="#"><u>0091362</u></a>	<b>Clonidine, Serum or Plasma</b>	<b>CLONIDI SP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>0091223</u></a>	<b>Clonidine, Urine</b>	<b>CLONID UR</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>2007252</u></a>	<b>Copper, RBC</b>	<b>COPPER RBC</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>0091301</u></a>	<b>Diazoxide Quantitative, Serum or Plasma</b>	<b>DIAZOXID</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>2007763</u></a>	<b>Diuretic Survey Quantitative, Serum or Plasma</b>	<b>DIURET SP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>2008603</u></a>	<b>ERBB2 (HER2/neu) Gene Amplification by FISH with Reflex, Tissue</b>	<b>ERBB2 FISH</b>
<b>Performed:</b>	Mon-Fri	
<b>Reported:</b>	3-9 days	
<b>Specimen Required:</b>	Collect: Tumor tissue. <u>Specimen Preparation:</u> Formalin fix (10 percent neutral buffered formalin) and paraffin-embed tissue. Fixative duration: 6-72 hours. Protect paraffin block from excessive heat. Transport block or 7 unstained (4 micron thick sections) positively charged slides in a tissue transport kit (ARUP supply #47808) available online through eSupply using ARUP Connect™ or contact ARUP Client Services at (800) 522-2787 (kit recommended but not necessary). (Min 4 slides) <u>Storage/Transport Temperature:</u> Room temperature. Also acceptable: Refrigerated. Ship in cooled container during summer months. <u>Remarks:</u> Include surgical pathology report. <u>Unacceptable Conditions:</u> Specimens fixed or processed in alternative fixatives (alcohol, Prefer) or heavy metal fixatives (B-4 or B-5). No tumor in tissue. Decalcified specimens. Tissue fixed for less than 6 hours or greater than 72 hours. <u>Stability (collection to initiation of testing):</u> Ambient: Indefinitely; Refrigerated: Indefinitely; Frozen: Unacceptable	
<b>Note:</b>	Breast tissue results of FISH group 2, 3, or 4 will be reflexed to ERBB2 (HER2/neu) (HercepTest) with Interpretation by Immunohistochemistry, Tissue (ARUP test code 0049174). Additional charges apply. Gastric and other non-breast tissue results of Equivocal will be reflexed to an alternate probe in an effort to resolve amplification status. Additional charges apply.	
<b>CPT Code(s):</b>	88377, if reflexed add 88360 or 88377	
<b>HOTLINE NOTE:</b>	There is a reflexive pattern change associated with this test. Add reflex to 0049174, ERBB2(HER2/neu) (HERCEP) w/Interpretation	
<a href="#"><u>0091319</u></a>	<b>Ethambutol Quantitative, Serum or Plasma</b>	<b>ETHAMBUT</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	

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<a href="#"><u>0091116</u></a>	<b>Flunitrazepam and Metabolites, Serum or Plasma, Screen with Reflex to Confirmation/Quantitation</b>	<b>FLUNITR SP</b>
Performed:	Varies	
Reported:	4-11 days	
<a href="#"><u>3000183</u></a>	<b>Flunitrazepam and Metabolites, Urine Screen with Reflex to Confirmation/Quantitation</b>	<b>FLUNI URN</b>
Performed:	Varies	
Reported:	4-11 days	
<a href="#"><u>0091341</u></a>	<b>Fluoride Quantitative, Serum or Plasma</b>	<b>FLUORIDE</b>
Performed:	Varies	
Reported:	7-10 days	
<a href="#"><u>2014180</u></a>	<b>Fluoxetine and Metabolite Quantitative, Serum or Plasma</b>	<b>FLUOX SP</b>
Performed:	Varies	
Reported:	4-7 days	
<a href="#"><u>0091234</u></a>	<b>Fluvoxamine Quantitative, Serum or Plasma</b>	<b>FLUVOXAM</b>
Performed:	Varies	
Reported:	4-7 days	
<a href="#"><u>0091517</u></a>	<b>Formic Acid, Serum or Plasma</b>	<b>FORMIC P</b>
Performed:	Varies	
Reported:	7-10 days	
<a href="#"><u>0091263</u></a>	<b>Furosemide Quantitative, Serum or Plasma</b>	<b>FUROSEM</b>
Performed:	Varies	
Reported:	7-10 days	
<a href="#"><u>0091203</u></a>	<b>Heroin - Screen with Reflex to Confirmation/Quantitation - Serum or Plasma</b>	<b>HEROIN SP</b>
Performed:	Varies	
Reported:	3-9 days	
<a href="#"><u>0091586</u></a>	<b>Heroin - Screen with Reflex to Confirmation/Quantitation - Urine</b>	<b>HEROIN URN</b>
Performed:	Varies	
Reported:	3-9 days	



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<a href="#"><u>2008326</u></a>	<b>Hydrocarbon and Oxygenated Volatiles Panel, Blood</b>	<b>HYDRO OX B</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	4-7 days	
<a href="#"><u>2014183</u></a>	<b>Ibuprofen Quantitative, Serum or Plasma</b>	<b>IBUPRO SP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>0091507</u></a>	<b>Ketamine and Metabolite Quantitative, Serum or Plasma</b>	<b>KETAMINE S</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	4-7 days	
<a href="#"><u>2011413</u></a>	<b>Lead, RBC</b>	<b>LEAD RBC</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>0091197</u></a>	<b>Lidocaine and Metabolite Quantitative, Serum or Plasma</b>	<b>LIDOCAIN</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	4-7 days	
<a href="#"><u>0091200</u></a>	<b>LSD, Serum or Plasma - Screen with Reflex to Confirmation/Quantitation</b>	<b>LSD SP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-17 days	
<a href="#"><u>0091224</u></a>	<b>LSD, Urine - Screen with Reflex to Confirmation/Quantitation</b>	<b>LSD URN</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-17 days	

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**New Test**    [3000394](#)    **Malignancy Risk Assessment, Pelvic Mass, OVA1**    **OVA1**  
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**Methodology:** Electrochemiluminescent Immunoassay (ECLIA)/Fixed-Rate-Time Nephelometry  
**Performed:** Varies  
**Reported:** 4-8 days

**Specimen Required:** Collect: Serum Separator Tube (SST).  
Specimen Preparation: Transfer 2.2 mL serum to an ARUP Standard Transport Tube. (Min: 1.1 mL)  
Storage/Transport Temperature: Refrigerated. Also acceptable: Frozen.  
Stability (collection to initiation of testing): Ambient: Unacceptable; Refrigerated: 8 days; Frozen: 9 weeks

**Reference Interval:** By Report

**Note:** Biomarkers: CA-125 II, Apolipoprotein A1 (Apo A-1), Beta-2 Microglobulin (B2M), Transferrin, and Prealbumin.

**CPT Code(s):** 81503

New York DOH Approved.

**HOTLINE NOTE:** Refer to the Test Mix Addendum for interface build information.

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[2007254](#)    **Manganese, RBC**    **MANG RBC**

**Performed:** Varies  
**Reported:** 4-7 days

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[3000248](#)    **Meperidine and Metabolite Quantitative, Urine**    **MEPERI U**

**Performed:** Varies  
**Reported:** 4-7 days

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[0091272](#)    **Mercury, Hair**    **MERCUR H**

**Performed:** Varies  
**Reported:** 8-11 days

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[0092390](#)    **Metformin Quantitative, Serum or Plasma**    **METFORM SP**

**Performed:** Varies  
**Reported:** 7-10 days

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[0091090](#)    **Methaqualone Quantitative, Serum or Plasma**    **METHAQ SP**

**Performed:** Varies  
**Reported:** 7-10 days

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[2006299](#)    **Methaqualone Quantitative, Urine**    **METHAQ UR**

**Performed:** Varies  
**Reported:** 7-10 days

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<a href="#"><u>3000251</u></a>	<b>Methsuximide Metabolite, Serum or Plasma</b>	<b>METHSU SP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>3000253</u></a>	<b>Methylphenidate and Metabolite Quantitative, Serum or Plasma</b>	<b>METHYL SP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>0091453</u></a>	<b>Metoprolol Quantitative, Serum or Plasma</b>	<b>METOPRO SP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>2013014</u></a>	<b>Mitotane, Serum or Plasma</b>	<b>MITOT SP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>0091280</u></a>	<b>Molybdenum Quantitative, Serum or Plasma</b>	<b>MOLYBDEN</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>2013025</u></a>	<b>Perampanel Quantitative, Serum or Plasma</b>	<b>PERAMP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>2013008</u></a>	<b>Periprosthetic Joint Infection (PJI) Detection (Synovasure)</b>	<b>SYNOVA PJI</b>
<b>Specimen Required:</b> Collect: Synovial fluid in Plain Red.		
<b>Specimen Preparation:</b> Transport 1 mL synovial fluid in the original collection tube. (Min: 0.5 mL) <b>Separate specimens must be submitted when multiple tests are ordered.</b>		
<b>Storage/Transport Temperature:</b> Refrigerated.		
<b>Remarks:</b> Specimen Source is required. (eg., left knee, right shoulder, etc.)		
<b>Stability (collection to initiation of testing):</b> Ambient: 72 hours; Refrigerated: 1 week; Frozen: Unacceptable		
<a href="#"><u>0091565</u></a>	<b>Phenobarbital, Free, Serum or Plasma</b>	<b>PHENOBAR F</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>0091551</u></a>	<b>Phenobarbital, Total/Free/Bound, Serum or Plasma</b>	<b>PHENOBAR</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	

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<a href="#"><u>2014041</u></a>	<b>Potassium, Total, RBC</b>	<b>K RBC</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	4-7 days	
<a href="#"><u>0091538</u></a>	<b>Propylene Glycol, Serum or Plasma</b>	<b>PROPY GLY</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>2013011</u></a>	<b>Selenium, RBCs</b>	<b>SELENI RBC</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	4-7 days	
<a href="#"><u>0091222</u></a>	<b>Silver Quantitative, Serum or Plasma</b>	<b>SILVER SP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>0091228</u></a>	<b>Silver, Urine</b>	<b>SILVER URN</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>0091229</u></a>	<b>Silver, Whole Blood</b>	<b>SILVER BLD</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	
<a href="#"><u>2008426</u></a>	<b><i>SLCO1B1</i>, 1 Variant</b>	<b>SLCO1B1</b>

**Interpretive Data:**

**Background Information for *SLCO1B1*, 1 Variant:**

**Characteristics:** Simvastatin is a commonly prescribed hypolipidemic drug used for cholesterol reduction and control. Approximately 1-5 percent of exposed individuals may experience a dose-dependent myopathy (skeletal muscle toxicity). Symptoms may include pain, muscle weakness, and cramps. The organic anion transporter polypeptide 1B1, encoded by *SLCO1B1*, transports active simvastatin acid from the blood stream into the liver. This test detects a common variant that reduces the function of the transporter, resulting in an increased plasma concentration of the drug.

**Inheritance:** Autosomal co-dominant.

**Cause:** Simvastatin hypersensitivity reaction is strongly associated with the *SLCO1B1*\*5 allele. The mechanism is related to changes in the activity of organic anion-transporter polypeptide 1B1 (OATP1B1). The \*1 allele (normal transporter function) is presumed when the \*5 allele is not detected. One copy of the \*5 allele predicts decreased transporter function; two copies of the \*5 allele predicts poor transporter function.

**Allele Tested:** *SLCO1B1*\*5 (rs4149056, c.521T>C).

**Allele Frequency:** Middle Eastern 5 percent, Caucasian 1-3 percent, African 0-2 percent, Asian 0-2 percent, Less than 1 percent in other populations.

**Clinical Sensitivity:** Drug-dependent.

**Methodology:** Polymerase Chain Reaction (PCR) and Fluorescence Monitoring.

**Analytical Sensitivity and Specificity:** Greater than 99 percent.

**Limitations:** Only the targeted *SLCO1B1* variant will be detected. Diagnostic errors can occur due to rare sequence variations. Risk of therapeutic failure or adverse reactions with statins may be affected by genetic and non-genetic factors that are not detected by this test. This result does not replace the need for therapeutic or clinical monitoring.

See Compliance Statement C: [www.aruplab.com/CS](http://www.aruplab.com/CS)

**HOTLINE NOTE:** There is a clinically significant charting name change associated with this test.

Change the charting name for component 2008427 from Statin Sensitivity *SLCO1B1*, Specimen to *SLCO1B1*, 1 Variant, Specimen.

Change the charting name for component 2008428 from Statin Sensitivity *SLCO1B1*,\*5 Genotype to *SLCO1B1*, 1 Variant,\*5 Genotype

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<a href="#"><u>0091574</u></a>	<b>Strychnine, Serum or Plasma</b>	<b>STRYCHNI S</b>
Performed:	Varies	
Reported:	4-10 days	
<a href="#"><u>0091568</u></a>	<b>Sulfhemoglobin Quantitative, Whole Blood</b>	<b>SULFHEMOGL</b>
Performed:	Varies	
Reported:	7-10 days	
<a href="#"><u>3000508</u></a>	<b>Synthetic Cannabinoid Metabolites, Qualitative, Urine</b>	<b>SYN CAN U</b>
Performed:	Varies	
Reported:	4-7 days	
<a href="#"><u>3000584</u></a>	<b>Tapentadol, Free, Serum or Plasma</b>	<b>TAPEN SP</b>
Performed:	Varies	
Reported:	7-10 days	
<a href="#"><u>0091386</u></a>	<b>Temazepam and Metabolite Quantitative, Serum or Plasma</b>	<b>TEMAZEPAM</b>
Performed:	Varies	
Reported:	3-7 days	
<a href="#"><u>0091585</u></a>	<b>Tin Total Quantitative, Serum or Plasma</b>	<b>TIN SP</b>
Performed:	Varies	
Reported:	4-7 days	
<a href="#"><u>0091555</u></a>	<b>Tin, Total, Whole Blood</b>	<b>TIN BLD</b>
Performed:	Varies	
Reported:	4-7 days	
<a href="#"><u>0091434</u></a>	<b>Titanium Quantitative, Serum or Plasma</b>	<b>TITANIU SP</b>
Performed:	Varies	
Reported:	4-7 days	
<a href="#"><u>0091399</u></a>	<b>Trihexyphenidyl Quantitative, Serum or Plasma</b>	<b>TRIHXPHE</b>
Performed:	Varies	
Reported:	7-10 days	
<a href="#"><u>0091396</u></a>	<b>Trimethoprim, Serum or Plasma</b>	<b>TRIMETHOPR</b>
Performed:	Varies	
Reported:	7-10 days	

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<a href="#"><u>0091286</u></a>	<b>Vanadium Quantitative, Serum or Plasma</b>	<b>VANADIU SP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	

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<a href="#"><u>2011039</u></a>	<b>Vigabatrin Quantitative, Serum or Plasma</b>	<b>VIGABAT</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	

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<a href="#"><u>0090805</u></a>	<b>Warfarin Quantitative, Serum or Plasma</b>	<b>WARF SP</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	

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<a href="#"><u>2006460</u></a>	<b>Zinc, RBC</b>	<b>ZINC RBC</b>
<b>Performed:</b>	Varies	
<b>Reported:</b>	7-10 days	

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**The following will be discontinued from ARUP's test menu on November 5, 2018.  
Replacement test options are supplied if applicable.**

<b>Test Number</b>	<b>Test Name</b>	<b>Refer To Replacement</b>
<a href="#">0091533</a>	Acetaminophen and Oxycodone Quantitative, Serum or Plasma	
<a href="#">2009380</a>	Complement C3 Nephritic Factor	
<a href="#">0099078</a>	Complement Component 1 Functional	
<a href="#">0099131</a>	Complement Component 6 Functional	
<a href="#">0099121</a>	Complement Component 7 Functional	
<a href="#">0099133</a>	Complement Component 8 Functional	
<a href="#">0099120</a>	Complement Component 9 Functional	
<a href="#">2003304</a>	Complement Component Level 3a	
<a href="#">2003180</a>	Complement Component Level 4a	
<a href="#">0099072</a>	Complement Component Level 6	
<a href="#">2009416</a>	Complement Factor H Level (B-1H)	
<a href="#">2009382</a>	Complement Factor I	
<a href="#">0098816</a>	Melatonin	