

August 2014 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

**Revision Message!**

Please note: The announcement to transfer TC 18831 - TPMT Activity to Quest Diagnostics Nichols Institute, Valencia on 9/8/2014 has been removed from this communication. The testing will continue to be performed at Quest Diagnostics Nichols Institute, San Juan Capistrano.

**NEW TESTS**

Please Note: Not all test codes assigned to each assay are listed in the table of contents. Please refer to the complete listing on the page numbers indicated.

Test Code	Test Name	Effective Date	Page #
<u>91568</u>	HIV-1 IgG Antibody, WB (CSF)	9/15/2014	2
<u>92145</u>	Cardio IQ® Advanced Lipid Panel	11/3/2014	3

**TEST CHANGES**

Please Note: Not all test codes assigned to each assay are listed in the table of contents. Please refer to the complete listing on the page numbers indicated.

Test Code	Former Test Code	Test Name	Effective Date	Page #
<u>9620</u>		Nuclear Matrix Proteins (NMP)	6/25/2014	5
<u>34838</u>	2443	<i>Helicobacter pylori</i> Antigen, EIA, Stool	9/8/2014	5
<u>34188</u>	1931	IgA Subclasses	9/8/2014	6
<u>7573X</u>	3534	Iron and Total Iron Binding Capacity	9/8/2014	6
<u>571</u>	3532	Iron, Total	9/8/2014	7
<u>3247</u>		Testosterone, Free	9/8/2014	8
<u>1347</u>		Alanine Aminotransferase (ALT)	9/15/2014	8
<u>3930</u>		Alkaline Phosphatase	9/15/2014	9
<u>3996</u>		Alkaline Phosphatase Isoenzymes	9/15/2014	9
<u>29498</u>	3974	Alkaline Phosphatase, Bone Specific	9/15/2014	9
<u>822</u>		AST (Aspartate Aminotransferase)	9/15/2014	10
<u>5300</u>		Carbon Dioxide	9/15/2014	10
<u>5317</u>		Comprehensive Metabolic Panel	9/15/2014	10
<u>CQLIR</u>		CQLIR Alkaline Phosphatase Isoenzymes	9/15/2014	11
<u>1322</u>		Creatinine Clearance	9/15/2014	11
<u>P3895N</u>		Custom Path Lab Max Profile	9/15/2014	11
<u>3934</u>		Fructosamine	9/15/2014	12
<u>5302</u>		Gamma Glutamyl Transferase (GGT)	9/15/2014	12
<u>90915</u>	S51378	Glycogen Storage Disease Type Ia Mutation Analysis (Ashkenazi Jewish)	9/15/2014	12
<u>502</u>		Haptoglobin	9/15/2014	13
<u>5318</u>		Hepatic Function Panel	9/15/2014	13
<u>3452</u>		LD	9/15/2014	13
<u>8593</u>	7711B	Lyme Disease Antibodies (IgG, IgM) Immunoblot	9/15/2014	13

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<u>7711</u>		<b>Lyme Disease Antibodies (IgG, IgM) Immunoblot w/o Bands</b>	9/15/2014	14
<b>29477</b>	7712BNY	Lyme Disease Antibody (IgG), Immunoblot	9/15/2014	14
<u>7714BNY</u>		<b>Lyme Disease Antibody (IgM) Immunoblot</b>	9/15/2014	15
<b>90909</b>	S51386	Maple Syrup Disease (MSUD) Mutation Analysis (Ashkenazi Jewish)	9/15/2014	16
<b>34256</b>	8820	Measles Antibody (IgM)	9/15/2014	16
<u>3605</u>		Pernicious Anemia Evaluatr w/Reflex	9/15/2014	17
<u>5308</u>		Phosphate (Phosphorus)	9/15/2014	17
<b>14994</b>	S50330	<b>PML-RARA t(15;17), Quantitative RT-PCR</b>	9/15/2014	17
<u>1324</u>		Protein, Total, Serum	9/15/2014	18
<u>5314</u>		Renal Function Panel	9/15/2014	19
<u>91745</u>		Thiopurine Metabolites	9/15/2014	19
<b>899</b>	3250	TSH	9/15/2014	19
<u>90123</u>		Chronic Urticaria Panel 2	9/15/2014	20
<u>1310</u>		Uric Acid	9/15/2014	20

**DISCONTINUED TESTS**

**Please Note: Not all test codes assigned to each assay are listed in the table of contents.  
Please refer to the complete listing on the page numbers indicated.**

<b>Test Code</b>	<b>Test Name</b>	<b>Effective Date</b>	<b>Page #</b>
<u>P2</u>	Echinococcus (p2) IgE	9/8/2014	21
<u>S50504</u>	Antiviral Susceptibility, Acyclovir	9/15/2014	21
<u>S50566</u>	Antiviral Susceptibility, Foscarnet	9/15/2014	21
	Borrelia Burgdorferi IgG & IgM ABS IB + Bands	9/15/2014	21
<u>1517</u>	Haptoglobin	9/15/2014	21
<u>3012T</u>	HIV-1 ABS [WB] (Blood Bank)	9/15/2014	21
<u>3012C</u>	HIV-1 ABS CSF [WB]	9/15/2014	21
<u>9928</u>	HIV-1/HIV-2 ABS w/Reflex WB & Hepatitis B Virus w/Neutral	9/15/2014	22
<u>8771</u>	Measles IgG & IgM ABS	9/15/2014	22
<u>8781</u>	Measles IgM ABS	9/15/2014	22
<u>2104T</u>	Treponema Pallidum Total ABS [Blood Bank]	9/15/2014	22
<u>S50365</u>	VAP Cholesterol Test	11/3/2014	22

**NY UPDATE**

**Please Note: Not all test codes assigned to each assay are listed in the table of contents.  
Please refer to the complete listing on the page numbers indicated.**

<b>Test Code</b>	<b>Test Name</b>	<b>Page #</b>
<u>S52326</u>	Chikungunya Virus RNA, Qualitative Real-Time PCR	23

**New Test Offerings**

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The following tests will be available through Quest Diagnostics on the dates indicated below.

<b>HIV-1 IgG Antibody, WB (CSF)</b>							
Message	<b>** This test is not available for New York patient testing **</b>						
Clinical Significance	<b>Detection of intrathecally-produced organism-specific antibodies in CSF indicates central nervous system infection. However, serum levels of organism-specific antibodies, blood-brain barrier integrity, and possible CSF contamination by blood should be considered when assessing CSF results. This assay is intended for specimens testing positive in a screening assay for HIV 1/2 antibodies.</b>						
Effective Date	<b>9/15/2014</b>						
Test Code	<b>91568</b>						
CPT Codes	<b>86689</b>						
Specimen Requirements	<b>1 mL (0.25 mL minimum) CSF collected in a plastic leak-proof container</b>						
Transport Temperature	<b>Room temperature</b>						
Specimen Stability	<b>Room temperature: 7 Days Refrigerated: 14 Days Frozen: 30 Days</b>						
Set-up/Analytic Time	<b>Set up: Mon, Wed, Fri; Report available: 1-4 days</b>						
Methodology	<b>Western Blot</b>						
Performing Site	<b>Focus Diagnostics, Inc.</b>						
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>86009295</td> <td>HIV-1 IgG Antibody, WB(CSF)</td> </tr> <tr> <td>86009303</td> <td>Bands Present</td> </tr> </tbody> </table>	Result Code	Result Name	86009295	HIV-1 IgG Antibody, WB(CSF)	86009303	Bands Present
Result Code	Result Name						
86009295	HIV-1 IgG Antibody, WB(CSF)						
86009303	Bands Present						

<b>Cardio IQ® Advanced Lipid Panel</b>	
Message	<b><i>Includes: Cardio IQ(R) Cholesterol, Total * Cardio IQ(R) HDL Cholesterol * Cardio IQ(R) Triglycerides * Cardio IQ(R) Non-HDL and Calculated Components * Cardio IQ(R) Lipoprotein Fractionation, Ion Mobility * Cardio IQ(R) Apolipoprotein B * Cardio IQ(R) Lipoprotein (a)</i></b>
Clinical Significance	<b>The advanced lipid profile provides a more comprehensive assessment of dyslipidemia and cardiovascular risk than standard lipid panel measurements.</b>
Effective Date	<b>11/3/2014</b>
Test Code	<b>92145</b>
CPT Codes	<b>80061, 83704, 82172, 83695</b>
Specimen Requirements	<b>4 mL (2 mL minimum) serum</b>
Reject Criteria	<b>Gross hemolysis; moderately icteric; grossly icteric</b>
Instructions	<b>Only serum is acceptable</b>
Transport Temperature	<b>Refrigerated</b>
Specimen Stability	<b>Room temperature: 24 hours Refrigerated: 5 days Frozen: 15 days</b>
Set-up/Analytic Time	<b>Set up: Mon-Fri; Report available: 3-6 days</b>

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Reference Range	Accompanies Report		
Methodology	Enzymatic, Spectrophotometric, Ion Mobility, Fixed Rate Nephelometry, Immunoturbidometric		
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano		
CPU Mappings	92145-1-Cardio IQ® Cholesterol, Total		
	Reporting Title: CARDIO IQ(R) LIPID PANEL		
	Result Code	Result Name	Unit of Measure
	25003000	Cholesterol, Total	mg/dL
	92145-2-Cardio IQ® HDL Cholesterol		
	Result Code	Result Name	Unit of Measure
	25015900	HDL Cholesterol	mg/dL
	92145-3-Cardio IQ® Triglycerides		
	Result Code	Result Name	Unit of Measure
	25002900	Triglycerides	mg/dL
	92145-4-Cardio IQ® Non-HDL and Calculated Components		
	Result Code	Result Name	Unit of Measure
	25016900	LDL Chol, Calculated	mg/dL
	25017000	Cholesterol/HDL Ratio	calc
	25017210	Non-HDL Cholesterol	mg/dL
	<i>*TR 92145-5-Cardio IQ® Direct LDL</i>		
	Reporting Title: CARDIO IQ(R) DIRECT LDL		
	Result Code	Result Name	Unit of Measure
	25008600	Direct LDL	mg/dL
	92145-6-Cardio IQ® Lipoprotein Fractionation, Ion Mobility		
	Reporting Title: LIPO FRACT, ION MOBILITY		
	Result Code	Result Name	Unit of Measure
	86002760	LDL Particle Number	nmol/L
	86009431	LDL Small	nmol/L
	86009433	LDL Medium	nmol/L
	86006295	HDL Large	nmol/L
	86002762	LDL Pattern	Pattern
	86002761	LDL Peak Size	Angstrom
92145-7-Cardio IQ® Apolipoprotein B			
Result Code	Result Name	Unit of Measure	
50057700	Apolipoprotein B	mg/dL	
92145-8-Cardio IQ® Lipoprotein (a)			

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Result Code	Result Name	Unit of Measure
25024000	Lipoprotein (a)	nmol/L
*TR (True Reflex) Flag CPU interface clients: If you are set up to use our True Reflexing option build the unit codes with the TR flag (indicated above) separately.		
Additional Information	If Triglyceride is >400 mg/dL, then Cardio IQ® Direct LDL will be performed at an additional charge (CPT code(s): 83721).	

### Test Changes

The following test changes will be effective on the dates indicated below. **Please note information that is changing appears in bold text in this update.** Former test names and test codes have been italicized.

Nuclear Matrix Proteins (NMP)	
Effective Date	6/25/2014
Test Code	9620
Set-up/Analytic Time	<b>Set up: Wed; Report available: 8 days</b>

<i>Helicobacter pylori</i> Antigen, EIA, Stool	
Clinical Significance	Colonization with <i>H. pylori</i> is associated with increased risk of patients developing gastritis, peptic ulcer disease, and gastric adenocarcinoma. Stool antigen testing provides a sensitive measure of infection including during and after treatment.
Effective Date	9/8/2014
Former Test Name	<i>Helicobacter pylori</i> Antigen Stool
Former Test Code	2443
Test Code	<b>34838</b>
Specimen Requirements	<b>0.5 mL or 0.5 grams (0.5 mL or 0.5 grams minimum) semi-solid stool or 20 mm diameter solid stool in a plastic, leak-proof container</b>
Reject Criteria	<b>Watery, diarrheal stool; Stool in preservative; transport media or swab</b> <b>Remove received room temperature</b>
Instructions	<b>Patient preparation:</b> <b>For initial diagnostic purposes no special patient preparation is required. Patients are not required to be off of medications or to fast before this test. While positive test results from patients taking agents such as proton pump inhibitors and antimicrobials should be considered accurate, false negative results may be obtained. For this reason, physicians may suggest the patient go off medications for two weeks and repeat test if negative results are obtained. To confirm eradication, testing should be done at least 4 weeks following the completion of treatment. However, a positive test result 7 days post therapy is indicative of treatment failure. This test is cleared for use with specimens from pediatric patients.</b>  <b>Collect 0.5 mL or 0.5 grams of semi-solid stool or 20 mm diameter solid stool and transfer to properly labeled plastic, leak-proof container. Do not place stool in preservative, transport media or swab. Watery, diarrheal stool is not acceptable.</b>
Transport Temperature	<b>Frozen</b>
Specimen Stability	Room temperature: Unacceptable Refrigerated: 72 hours <b>Frozen: 30 days</b>

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Set-up/Analytic Time	<b>Set up: Daily; Report available: 1-4 days</b>					
Reference Range	<b>Not detected</b>					
Always Message	<b>Antimicrobials, proton pump inhibitors, and bismuth preparations inhibit <i>H. pylori</i> and ingestion up to two weeks prior to testing may cause false negative results. If clinically indicated the test should be repeated on a new specimen obtained two weeks after discontinuing treatment.</b>					
Performing Site	Quest Diagnostics Nichols Institute, Valencia					
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>85984320</td> <td>H. pylori Antigen</td> </tr> </tbody> </table>		Result Code	Result Name	85984320	H. pylori Antigen
Result Code	Result Name					
85984320	H. pylori Antigen					
Additional Information	Pricing Message: Negotiated pricing on 2443 will be applied to code 34838.					

<b>IgA Subclasses</b>																																													
Clinical Significance	<b>IgA1 constitutes approximately 80% of the circulating IgA. IgA nephropathy is typically due to IgA1. IgA2 predominates in secretions of some mucosal surfaces. IgA2 concentrations may be useful as an index of mucosal pathology. Subclass deficiency is associated with anaphylactic transfusion reactions.</b>																																												
<b>Effective Date</b>	<b>9/8/2014</b>																																												
<i>Former Test Code</i>	1931																																												
Test Code	34188																																												
CPT Codes	82784, 82787(x2)																																												
Specimen Requirements	2 mL (1 mL minimum) serum																																												
Transport Temperature	Refrigerated																																												
Specimen Stability	Room temperature: 6 hours Refrigerated: 14 days Frozen: 90 days																																												
Set-up/Analytic Time	<b>Set up: Mon; Report available: 3 days</b>																																												
Reference Range	<table border="1"> <thead> <tr> <th></th> <th>6-11 months</th> <th>1 year</th> <th>2 years</th> <th>3 years</th> <th>4-7 years</th> <th>8-11 years</th> <th>12-17 years</th> <th>&gt; or = 18 years</th> </tr> </thead> <tbody> <tr> <td><b>IgA1 (mg/dL):</b></td> <td>1-115</td> <td>3-120</td> <td>7-132</td> <td>11-143</td> <td>23-175</td> <td>33-204</td> <td>47-249</td> <td>46-378</td> </tr> <tr> <td><b>IgA2 (mg/dL):</b></td> <td>0-19</td> <td>0-23</td> <td>1-23</td> <td>1-25</td> <td>2-33</td> <td>2-37</td> <td>4-50</td> <td>13-91</td> </tr> <tr> <td><b>IgA, Serum (mg/dL):</b></td> <td>3-101</td> <td>6-112</td> <td>11-134</td> <td>16-155</td> <td>31-214</td> <td>43-268</td> <td>65-356</td> <td>81-463</td> </tr> </tbody> </table>										6-11 months	1 year	2 years	3 years	4-7 years	8-11 years	12-17 years	> or = 18 years	<b>IgA1 (mg/dL):</b>	1-115	3-120	7-132	11-143	23-175	33-204	47-249	46-378	<b>IgA2 (mg/dL):</b>	0-19	0-23	1-23	1-25	2-33	2-37	4-50	13-91	<b>IgA, Serum (mg/dL):</b>	3-101	6-112	11-134	16-155	31-214	43-268	65-356	81-463
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Methodology	<b>Nephelometry</b>																																												
Performing Site	<b>This test previously performed at Quest Diagnostics Nichols Institute, Valencia will now be performed at Quest Diagnostics Nichols Institute, San Juan Capistrano.</b>																																												
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> <th>Unit of Measure</th> </tr> </thead> <tbody> <tr> <td>85984440</td> <td>IgA1</td> <td>mg/dL</td> </tr> <tr> <td>85984441</td> <td>IgA2</td> <td>mg/dL</td> </tr> <tr> <td>85984442</td> <td>IgA, Serum</td> <td>mg/dL</td> </tr> </tbody> </table>									Result Code	Result Name	Unit of Measure	85984440	IgA1	mg/dL	85984441	IgA2	mg/dL	85984442	IgA, Serum	mg/dL																								
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Additional Information	Pricing Message: Negotiated pricing on 1931 will be applied to code 34188.
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Iron and Total Iron Binding Capacity																																																								
Effective Date	9/8/2014																																																							
Former Test Name	Iron Binding Capacity Plus % Saturation																																																							
Former Test Code	3534																																																							
Test Code	7573X																																																							
Specimen Requirements	Preferred: 1 mL (0.5 mL minimum) serum  <b>Acceptable:</b> <b>Plasma collected in a sodium heparin (green-top) or lithium heparin (green-top) tube</b>																																																							
Reject Criteria	<b>Moderate hemolysis; anticoagulants other than heparin</b>  <b>Remove plasma</b>																																																							
Reference Range	<table border="1"> <thead> <tr> <th colspan="3">Iron, Total</th> </tr> <tr> <th></th> <th>Male (mcg/dL)</th> <th>Female (mcg/dL)</th> </tr> </thead> <tbody> <tr> <td>&lt;1 Month</td> <td>32-112</td> <td>29-127</td> </tr> <tr> <td>1-11 Months</td> <td>27-109</td> <td>25-126</td> </tr> <tr> <td>1-3 Years</td> <td>29-91</td> <td>25-101</td> </tr> <tr> <td>4-19 Years</td> <td>27-164</td> <td>27-164</td> </tr> <tr> <td>20-29 Years</td> <td><b>50-195</b></td> <td></td> </tr> <tr> <td>&gt; or = 30 Years</td> <td><b>50-180</b></td> <td></td> </tr> <tr> <td>20-49 Years</td> <td></td> <td><b>40-190</b></td> </tr> <tr> <td>&gt; or = 50 Years</td> <td></td> <td><b>45-160</b></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Iron Binding Capacity</th> <th>No change to current ranges</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">% Saturation</th> </tr> <tr> <th></th> <th>Male (%)</th> <th>Female (%)</th> </tr> </thead> <tbody> <tr> <td>&lt;1 Year</td> <td>Not Established</td> <td>Not Established</td> </tr> <tr> <td>1-12 Years</td> <td>8-48</td> <td>8-45</td> </tr> <tr> <td>13-19 Years</td> <td>9-52</td> <td>8-45</td> </tr> <tr> <td>&gt; or = 20 Years</td> <td><b>15-60</b></td> <td><b>11-50</b></td> </tr> </tbody> </table>		Iron, Total				Male (mcg/dL)	Female (mcg/dL)	<1 Month	32-112	29-127	1-11 Months	27-109	25-126	1-3 Years	29-91	25-101	4-19 Years	27-164	27-164	20-29 Years	<b>50-195</b>		> or = 30 Years	<b>50-180</b>		20-49 Years		<b>40-190</b>	> or = 50 Years		<b>45-160</b>	Iron Binding Capacity		No change to current ranges				% Saturation				Male (%)	Female (%)	<1 Year	Not Established	Not Established	1-12 Years	8-48	8-45	13-19 Years	9-52	8-45	> or = 20 Years	<b>15-60</b>	<b>11-50</b>
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	<b>25002600</b>	<b>Iron, Total</b>	<b>mcg/dL</b>
	<b>25002800</b>	<b>% Saturation</b>	<b>%</b>
Tests Affected	<b>Test Codes:</b>		<b>Name:</b>
	3535		Iron Status MonitR

Iron, Total			
Effective Date	9/8/2014		
Former Test Code	3532		
Test Code	571		
Specimen Requirements	Preferred: 1 mL (0.5 mL minimum) serum  Acceptable: Plasma collected in a sodium heparin (green-top) or lithium heparin (green-top) tube		
Reject Criteria	Anticoagulants other than heparin  Remove plasma and gross hemolysis		
Reference Range		Male (mcg/dL)	Female (mcg/dL)
	<1 Month	32-112	29-127
	1-11 Months	27-109	25-126
	1-3 Years	29-91	25-101
	4-19 Years	27-164	27-164
	20-29 Years	<b>50-195</b>	
	> or = 30 Years	<b>50-180</b>	
	20-49 Years		<b>40-190</b>
	> or = 50 Years		<b>45-160</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia		
CPU Mappings	<b>Result Code</b>	<b>Result Name</b>	<b>Unit of Measure</b>
	<b>25002600</b>	<b>Iron, Total</b>	<b>mcg/dL</b>

Testosterone, Free	
Effective Date	9/8/2014
Test Code	3247
Reject Criteria	Hemolysis; ictericia; lipemia
Transport Temperature	Frozen



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Specimen Stability	Room temperature: Unacceptable <b>Refrigerated: 24 hours</b> <b>Frozen: 60 days</b>		
Reference Range	<b>Males:</b>	<b>20-50 years</b>	<b>0.87-5.47 ng/dL</b>
	<b>Females:</b>	<b>Normal</b>	<b>0.03-0.32 ng/dL</b>
		<b>Follicular Phase</b>	<b>0.05-0.32 ng/dL</b>
		<b>Luteal Phase</b>	<b>0.05-0.25 ng/dL</b>
		<b>Oral Contraceptive</b>	<b>0.06-0.20 ng/dL</b>
		<b>Post Menopausal</b>	<b>0.03-0.17 ng/dL</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia		

Alanine Aminotransferase (ALT)	
Effective Date	9/15/2014
Test Code	1347
Reject Criteria	<b>Moderate or grossly lipemic samples</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia

Alkaline Phosphatase	
Effective Date	9/15/2014
Test Code	3930
Specimen Requirements	<b>Remove: Avoid hemolysis</b>
Reject Criteria	<b>Remove: Grossly hemolyzed specimens will be rejected</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia

Alkaline Phosphatase Isoenzymes	
Effective Date	9/15/2014
Test Code	3996
Specimen Requirements	<b>Remove: Avoid hemolysis</b>
Reject Criteria	<b>Remove: Grossly hemolyzed specimens will be rejected</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia

Alkaline Phosphatase, Bone Specific	
Effective Date	9/15/2014
Former Test Code	3974
Test Code	<b>29498</b>
Specimen Requirements	1 mL ( <b>0.3 mL minimum</b> ) serum

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Reject Criteria	<b>Non-serum samples; grossly lipemic samples; grossly icteric samples; grossly hemolyzed samples</b>																																												
Instructions	<b>Allow serum samples to clot completely before centrifugation.</b>																																												
Transport Temperature	<b>Room temperature</b>																																												
Specimen Stability	<b>Room temperature and Refrigerated: 7 days</b> Frozen: 60 days																																												
Set-up/Analytic Time	<b>Set up: Mon, Wed, Fri; Report available: 3-6 days</b>																																												
Reference Range	<table border="1"> <thead> <tr> <th></th> <th>Males (mcg/L)</th> <th>Females (mcg/L)</th> </tr> </thead> <tbody> <tr> <td><b>2-24 months**:</b></td> <td><b>25.4-124.0</b></td> <td><b>25.4-124.0</b></td> </tr> <tr> <td><b>6-9 years:</b></td> <td><b>41.0-134.6</b></td> <td><b>41.0-134.6</b></td> </tr> <tr> <td><b>10-13 years:</b></td> <td><b>43.8-177.4</b></td> <td><b>24.2-154.2</b></td> </tr> <tr> <td><b>14-17 years:</b></td> <td><b>13.7-128.0</b></td> <td><b>10.5-75.2</b></td> </tr> <tr> <td colspan="3"><b>** Pediatric data from Int J Biol Markers (1996) 11:159-164.</b></td> </tr> <tr> <td><b>18-29 years:</b></td> <td><b>8.4-29.3</b></td> <td><b>4.7-17.8</b></td> </tr> <tr> <td><b>30-39 years:</b></td> <td><b>7.7-21.3</b></td> <td><b>5.3-19.5</b></td> </tr> <tr> <td><b>40-49 years:</b></td> <td><b>7.0-18.3</b></td> <td><b>5.0-18.8</b></td> </tr> <tr> <td><b>50-68 years:</b></td> <td><b>7.6-14.9</b></td> <td></td> </tr> <tr> <td><b>50-76 years:</b></td> <td></td> <td><b>5.6-29.0</b></td> </tr> <tr> <td><b>&gt;68 years:</b></td> <td colspan="2"><b>Not established for this age group</b></td> </tr> <tr> <td><b>&gt;76 years:</b></td> <td></td> <td><b>Not established for this age group</b></td> </tr> <tr> <td><b>Premenopausal (35-45 years):</b></td> <td></td> <td><b>5.0-18.2</b></td> </tr> </tbody> </table>				Males (mcg/L)	Females (mcg/L)	<b>2-24 months**:</b>	<b>25.4-124.0</b>	<b>25.4-124.0</b>	<b>6-9 years:</b>	<b>41.0-134.6</b>	<b>41.0-134.6</b>	<b>10-13 years:</b>	<b>43.8-177.4</b>	<b>24.2-154.2</b>	<b>14-17 years:</b>	<b>13.7-128.0</b>	<b>10.5-75.2</b>	<b>** Pediatric data from Int J Biol Markers (1996) 11:159-164.</b>			<b>18-29 years:</b>	<b>8.4-29.3</b>	<b>4.7-17.8</b>	<b>30-39 years:</b>	<b>7.7-21.3</b>	<b>5.3-19.5</b>	<b>40-49 years:</b>	<b>7.0-18.3</b>	<b>5.0-18.8</b>	<b>50-68 years:</b>	<b>7.6-14.9</b>		<b>50-76 years:</b>		<b>5.6-29.0</b>	<b>&gt;68 years:</b>	<b>Not established for this age group</b>		<b>&gt;76 years:</b>		<b>Not established for this age group</b>	<b>Premenopausal (35-45 years):</b>		<b>5.0-18.2</b>
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Methodology	<b>Immunoenzymatic</b>																																												
Performing Site	<b>This test previously performed at Quest Diagnostics Nichols Institute, Valencia will now be performed at Quest Diagnostics Nichols Institute, San Juan Capistrano.</b>																																												
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> <th>Unit of Measure</th> </tr> </thead> <tbody> <tr> <td><b>85986740</b></td> <td><b>Bone Specific</b></td> <td><b>mcg/L</b></td> </tr> </tbody> </table>			Result Code	Result Name	Unit of Measure	<b>85986740</b>	<b>Bone Specific</b>	<b>mcg/L</b>																																				
Result Code	Result Name	Unit of Measure																																											
<b>85986740</b>	<b>Bone Specific</b>	<b>mcg/L</b>																																											

<b>AST (Aspartate Aminotransferase)</b>					
<b>Effective Date</b>	<b>9/15/2014</b>				
Test Code	822				
Reject Criteria	<b>Moderate hemolysis; gross hemolysis</b>				
Specimen Stability	<table border="1"> <tbody> <tr> <td>Serum:</td> <td>Room temperature: 4 days Refrigerated: 7 days Frozen: 5 days</td> </tr> <tr> <td>Plasma:</td> <td>Room temperature: 4 days Refrigerated: 7 days <b>Frozen: 5 days</b></td> </tr> </tbody> </table>	Serum:	Room temperature: 4 days Refrigerated: 7 days Frozen: 5 days	Plasma:	Room temperature: 4 days Refrigerated: 7 days <b>Frozen: 5 days</b>
Serum:	Room temperature: 4 days Refrigerated: 7 days Frozen: 5 days				
Plasma:	Room temperature: 4 days Refrigerated: 7 days <b>Frozen: 5 days</b>				

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Performing Site	Quest Diagnostics Nichols Institute, Valencia
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Carbon Dioxide							
Effective Date	9/15/2014						
Test Code	5300						
Reference Range	Bicarbonate: 19-30 mmol/L <b>High Altitude Reference Intervals (&gt;4000 Ft): 17 - 28 mmol/L</b>						
Performing Site	Quest Diagnostics Nichols Institute, Valencia						
Tests Affected	<table border="1"> <thead> <tr> <th>Test Codes:</th> <th>Name:</th> </tr> </thead> <tbody> <tr> <td>5316</td> <td>Electrolyte Panel</td> </tr> <tr> <td>5315</td> <td>Metabolic Panel, Basic</td> </tr> </tbody> </table>	Test Codes:	Name:	5316	Electrolyte Panel	5315	Metabolic Panel, Basic
Test Codes:	Name:						
5316	Electrolyte Panel						
5315	Metabolic Panel, Basic						

Comprehensive Metabolic Panel					
Effective Date	9/15/2014				
Test Code	5317				
Specimen Requirements	<b>Remove: Avoid hemolysis</b>				
Reject Criteria	<b>Moderate or grossly lipemic samples; moderate or gross hemolysis</b>				
Specimen Stability	<table border="1"> <tbody> <tr> <td>Serum:</td> <td>Room temperature: 4 days Refrigerated: 7 days Frozen: 5 days</td> </tr> <tr> <td>Plasma:</td> <td>Room temperature: 4 days Refrigerated: 7 days <b>Frozen: 5 days</b></td> </tr> </tbody> </table>	Serum:	Room temperature: 4 days Refrigerated: 7 days Frozen: 5 days	Plasma:	Room temperature: 4 days Refrigerated: 7 days <b>Frozen: 5 days</b>
Serum:	Room temperature: 4 days Refrigerated: 7 days Frozen: 5 days				
Plasma:	Room temperature: 4 days Refrigerated: 7 days <b>Frozen: 5 days</b>				
Reference Range	Bicarbonate: 19-30 mmol/L <b>High Altitude Reference Intervals (&gt;4000 Ft): 17 - 28 mmol/L</b>				
Performing Site	Quest Diagnostics Nichols Institute, Valencia				

CQLIR Alkaline Phosphatase Isoenzymes	
Effective Date	9/15/2014
Test Code	CQLIR
Specimen Requirements	<b>Remove: Avoid hemolysis</b>
Reject Criteria	<b>Remove: Grossly hemolyzed specimens will be rejected</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia

Creatinine Clearance	
Effective Date	9/15/2014
Test Code	1322

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Instructions	<b>Please specify on the request form if the sample is a 24-hour urine or a timed urine (not 24-hour). Please indicate the total urine volume and the start and end time of collection on the request form.</b>  <b>Remove any reference to random urine.</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia

Custom Path Lab Max Profile			
Effective Date	9/15/2014		
Test Code	P3895N		
Reject Criteria	<b>Moderate or grossly lipemic; hemolysis</b>		
Specimen Stability	Serum:	Room temperature: 4 days Refrigerated: 7 days Frozen: 5 days	
	Plasma:	Room temperature: 4 days Refrigerated: 7 days <b>Frozen: 5 days</b>	
Reference Range	<b>Phosphate (Phosphorus):</b>		
	Age	Males (mg/dL)	Females (mg/dL)
	0-6 days:	4.0-9.0	4.0-9.0
	7 days-2 years:	4.0-8.0	4.0-8.0
	3-12 years:	3.0-6.0	3.0-6.0
	13-64 years:	2.5-4.5	2.5-4.5
	>64 years:	2.1-4.3	2.1-4.3
	<b>Not Provided:</b>	<b>2.5-4.5</b>	<b>2.5-4.5</b>
<b>Carbon Dioxide:</b> Bicarbonate: 19-30 mmol/L <b>High Altitude Reference Intervals (&gt;4000 Ft): 17 - 28 mmol/L</b>			
Performing Site	Quest Diagnostics Nichols Institute, Valencia		

Fructosamine	
Clinical Significance	<b>Fructosamine reflects intermediate glycemic control (over 1-2 weeks). Testing is often used to complement glucose (immediate glycemic control) and hemoglobin A1c testing (long-term glycemic control).</b>
Effective Date	9/15/2014
Test Code	3934
Reject Criteria	Moderate hemolysis; gross hemolysis; gross icteric; <b>any anticoagulant other than EDTA or heparin; whole blood</b>  <b>Remove: moderate icteric</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia

**Gamma Glutamyl Transferase (GGT)**

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<b>Effective Date</b>	9/15/2014
Test Code	5302
Reject Criteria	<b>Remove: Grossly hemolyzed specimens will be rejected</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia

<b>Glycogen Storage Disease Type Ia Mutation Analysis (Ashkenazi Jewish)</b>														
Message	<b>**This test is available for New York patient testing.**</b>													
<b>Effective Date</b>	9/15/2014													
<i>Former Test Code</i>	S51378													
Test Code	<b>90915</b>													
CPT Codes	<b>81250</b>													
Methodology	Polymerase Chain Reaction, <b>Allele specific primer extension, fluorescent detection using color coded microspheres</b>													
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano													
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Type</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td><b>86008273</b></td> <td></td> <td>Glycogen Storage Disease</td> </tr> <tr> <td><b>86007538</b></td> <td>Prompt-Result (no return)</td> <td>Referring Physician:</td> </tr> <tr> <td><b>86007542</b></td> <td>Prompt-Result (no return)</td> <td><b>Physician Phone #:</b></td> </tr> </tbody> </table>		Result Code	Type	Result Name	<b>86008273</b>		Glycogen Storage Disease	<b>86007538</b>	Prompt-Result (no return)	Referring Physician:	<b>86007542</b>	Prompt-Result (no return)	<b>Physician Phone #:</b>
Result Code	Type	Result Name												
<b>86008273</b>		Glycogen Storage Disease												
<b>86007538</b>	Prompt-Result (no return)	Referring Physician:												
<b>86007542</b>	Prompt-Result (no return)	<b>Physician Phone #:</b>												

<b>Haptoglobin</b>	
<b>Effective Date</b>	9/15/2014
Test Code	502
Reject Criteria	Gross hemolysis; gross lipemia; <b>plasma</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia

<b>Hepatic Function Panel</b>	
<b>Effective Date</b>	9/15/2014
Test Code	5318
Reject Criteria	<b>Moderately or grossly lipemic samples; gross hemolysis</b> <b>Remove: icteric specimens</b>
Instructions	1 mL serum separated within 1 hr of collection <b>Remove: avoid hemolysis</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia

<b>LD</b>	
<b>Effective Date</b>	9/15/2014

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Test Code	3452
Reject Criteria	<b>Hemolysis</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia

**Lyme Disease Antibodies (IgG, IgM) Immunoblot**

Message	<b>**This test is approved for New York patient testing**</b>
Clinical Significance	<b>Lyme disease is transmitted by a tick vector carrying <i>Borrelia burgdorferi</i>. Immunoblot testing qualitatively examines, with high specificity, antibodies in a patient's specimen. Immunoblot testing is appropriate for confirming a detected EIA or IFA test result.</b>
Effective Date	<b>9/15/2014</b>
Former Test Name	<i>BORRELIA BURGENDORFERI IGG &amp; IGM ABS IB + BANDS [CDC CRITERIA]</i>
Former Test Code	<i>7711B</i>
Test Code	<b>8593</b>
Reject Criteria	<b>Gross hemolysis</b>
Specimen Stability	Room temperature: 7 days Refrigerated: 14 days <b>Frozen: 30 days</b>
Set-up/Analytic Time	<b>Set up: Daily; Report available: 1-3 days</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia

CPU Mappings	<b>Result Code</b>	<b>Result Name</b>
	45059500	Lyme Disease Ab (IgG),Blot
	45059600	18 kD (IgG) Band
	45059700	23 kD (IgG) Band
	45059800	28 kD (IgG) Band
	45059900	30 kD (IgG) Band
	45061300	39 kD (IgG) Band
	45061400	41 kD (IgG) Band
	45060500	45 kD (IgG) Band
	45060600	58 kD (IgG) Band
	45060700	66 kD (IgG) Band
	45060800	93 kD (IgG) Band
	45060900	Lyme Disease Ab (IgM),Blot
	45061500	23 kD (IgM) Band
	45061600	39 kD (IgM) Band
	45061200	41 kD (IgM) Band

**Lyme Disease Antibodies (IgG, IgM) Immunoblot w/o Bands**

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Message	<b>**This test is approved for New York patient testing**</b>							
Clinical Significance	Lyme disease is transmitted by a tick vector carrying <i>Borrelia burgdorferi</i> . Immunoblot testing qualitatively examines, with high specificity, antibodies in a patient's specimen. Immunoblot testing is appropriate for confirming a detected EIA or IFA test result.							
Effective Date	9/15/2014							
Former Test Name	BORRELIA BURGDORFERI IGG & IGM ABS IB [CDC CRITERIA]							
Test Code	7711							
Reject Criteria	Gross hemolysis							
Specimen Stability	Room temperature: 7 days Refrigerated: 14 days Frozen: 30 days							
Set-up/Analytic Time	Set up: Daily; Report available: 1-3 days							
Performing Site	Quest Diagnostics Nichols Institute, Valencia							
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>45059500</td> <td>Lyme Disease Ab (IgG),Blot</td> </tr> <tr> <td>45060900</td> <td>Lyme Disease Ab (IgM),Blot</td> </tr> </tbody> </table>		Result Code	Result Name	45059500	Lyme Disease Ab (IgG),Blot	45060900	Lyme Disease Ab (IgM),Blot
Result Code	Result Name							
45059500	Lyme Disease Ab (IgG),Blot							
45060900	Lyme Disease Ab (IgM),Blot							

Lyme Disease Antibody (IgG), Immunoblot												
Clinical Significance	Lyme disease is transmitted by a tick vector carrying <i>Borrelia burgdorferi</i> . Immunoblot testing qualitatively examines, with high specificity, antibodies in a patient's specimen. Immunoblot testing is appropriate for confirming a detected EIA or IFA test result.											
Effective Date	9/15/2014											
Former Test Name	BORRELIA BURGDORFERI IGG ABS IB + BANDS [NY]											
Former Test Code	7712BNY											
Test Code	29477											
Reject Criteria	Gross hemolysis											
Specimen Stability	Room temperature: 7 days Refrigerated: 14 days Frozen: 30 days											
Set-up/Analytic Time	Set up: Daily; Report available: 1-3 days											
Always Message	As per CDC criteria, a Lyme disease IgG Immunoblot must show reactivity to at least 5 to 10 specific borrelial proteins to be considered positive. Although considered negative, IgG reactivity to fewer specific borrelial proteins may indicate recent <i>B. burgdorferi</i> infection and warrant testing of a later sample.											
Performing Site	Quest Diagnostics Nichols Institute, Valencia											
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>45059500</td> <td>Lyme Disease Ab (IgG),Blot</td> </tr> <tr> <td>45059600</td> <td>18 kD (IgG) Band</td> </tr> <tr> <td>45059700</td> <td>23 kD (IgG) Band</td> </tr> <tr> <td>45059800</td> <td>28 kD (IgG) Band</td> </tr> </tbody> </table>		Result Code	Result Name	45059500	Lyme Disease Ab (IgG),Blot	45059600	18 kD (IgG) Band	45059700	23 kD (IgG) Band	45059800	28 kD (IgG) Band
Result Code	Result Name											
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45059600	18 kD (IgG) Band											
45059700	23 kD (IgG) Band											
45059800	28 kD (IgG) Band											

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45059900	30 kD (IgG) Band
45061300	39 kD (IgG) Band
45061400	41 kD (IgG) Band
45060500	45 kD (IgG) Band
45060600	58 kD (IgG) Band
45060700	66 kD (IgG) Band
45060800	93 kD (IgG) Band

Lyme Disease Antibody (IgM) Immunoblot											
Clinical Significance	Lyme disease is transmitted by a tick vector carrying <i>Borrelia burgdorferi</i> . Immunoblot testing qualitatively examines, with high specificity, antibodies in a patient's specimen. Immunoblot testing is appropriate for confirming a detected EIA or IFA test result.										
Effective Date	9/15/2014										
Former Test Name	BORRELIA BURGENDORFERI IGM ABS IB + BANDS [NY]										
Test Code	7714BNY										
Reject Criteria	Gross hemolysis										
Specimen Stability	Room temperature: 7 days Refrigerated: 14 days Frozen: 30 days										
Set-up/Analytic Time	Set up: Daily; Report available: 1-3 days										
Always Message	As per CDC criteria, a positive Lyme disease IgM immunoblot requires reactivity to 2 of 3 specific borrelial proteins. Although considered negative, IgM reactivity to only 1 protein may indicate recent <i>B.burgdorferi</i> infection and warrant testing of a later sample.										
Performing Site	Quest Diagnostics Nichols Institute, Valencia										
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>45060900</td> <td>Lyme Disease Ab (IgM),Blot</td> </tr> <tr> <td>45061500</td> <td>23 kD (IgM) Band</td> </tr> <tr> <td>45061600</td> <td>39 kD (IgM) Band</td> </tr> <tr> <td>45061200</td> <td>41 kD (IgM) Band</td> </tr> </tbody> </table>	Result Code	Result Name	45060900	Lyme Disease Ab (IgM),Blot	45061500	23 kD (IgM) Band	45061600	39 kD (IgM) Band	45061200	41 kD (IgM) Band
Result Code	Result Name										
45060900	Lyme Disease Ab (IgM),Blot										
45061500	23 kD (IgM) Band										
45061600	39 kD (IgM) Band										
45061200	41 kD (IgM) Band										

Maple Syrup Disease (MSUD) Mutation Analysis (Ashkenazi Jewish)	
Message	<b>**This test is available for New York patient testing.**</b>
Effective Date	9/15/2014
Former Test Code	S51386
Test Code	90909
CPT Codes	81205
Transport Temperature	Room temperature



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Methodology	Polymerase Chain Reaction, <b>Allele specific primer extension, fluorescent detection using color coded microspheres</b>													
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano													
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Type</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>86008274</td> <td></td> <td>MSUD Mutation (Jewish)</td> </tr> <tr> <td>86007538</td> <td>Prompt-Result (no return)</td> <td>Referring Physician:</td> </tr> <tr> <td>86007542</td> <td>Prompt-Result (no return)</td> <td>Physician Phone #:</td> </tr> </tbody> </table>		Result Code	Type	Result Name	86008274		MSUD Mutation (Jewish)	86007538	Prompt-Result (no return)	Referring Physician:	86007542	Prompt-Result (no return)	Physician Phone #:
Result Code	Type	Result Name												
86008274		MSUD Mutation (Jewish)												
86007538	Prompt-Result (no return)	Referring Physician:												
86007542	Prompt-Result (no return)	Physician Phone #:												

Measles Antibody (IgM)							
Effective Date	9/15/2014						
Former Test Code	8820						
Test Code	34256						
Specimen Requirements	1 mL ( 0.2 mL minimum) serum						
Set-up/Analytic Time	<b>Set up: Mon, Wed, Fri; Report available: 1-4 days</b>						
Reference Range	<p>&lt;1:20</p> <p><b>Interpretive Criteria:</b></p> <p>&lt;1:20      <b>Antibody not detected</b></p> <p>&gt; or = 1:20      <b>Antibody detected</b></p>						
Performing Site	Quest Diagnostics Nichols Institute, Valencia						
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> <th>Unit of Measure</th> </tr> </thead> <tbody> <tr> <td>70035550</td> <td>Measles Antibody, IgM</td> <td>titer</td> </tr> </tbody> </table>	Result Code	Result Name	Unit of Measure	70035550	Measles Antibody, IgM	titer
Result Code	Result Name	Unit of Measure					
70035550	Measles Antibody, IgM	titer					
Tests Affected	<table border="1"> <thead> <tr> <th>Test Codes:</th> <th>Name:</th> </tr> </thead> <tbody> <tr> <td>RLZ</td> <td>Reflex Measles IgM AB by IFA</td> </tr> </tbody> </table>	Test Codes:	Name:	RLZ	Reflex Measles IgM AB by IFA		
Test Codes:	Name:						
RLZ	Reflex Measles IgM AB by IFA						

Pernicious Anemia Evaluatr w/Reflex													
Effective Date	9/15/2014												
Test Code	3605												
Specimen Requirements	1 mL (0.3 mL minimum) serum												
Specimen Stability	<b>Room temperature and Refrigerated: 7 days</b> <b>Frozen: 28 days</b>												
Reference Range	<table border="1"> <thead> <tr> <th>Vitamin B12</th> <th>Males (pg/mL)</th> <th>Females (pg/mL)</th> </tr> </thead> <tbody> <tr> <td>0-4 years:</td> <td>Not established</td> <td>Not established</td> </tr> <tr> <td>5-9 years:</td> <td>250-1205</td> <td>250-1205</td> </tr> <tr> <td>10-17 years:</td> <td>260-935</td> <td>260-935</td> </tr> </tbody> </table>	Vitamin B12	Males (pg/mL)	Females (pg/mL)	0-4 years:	Not established	Not established	5-9 years:	250-1205	250-1205	10-17 years:	260-935	260-935
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5-9 years:	250-1205	250-1205											
10-17 years:	260-935	260-935											

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	>17 years:	200-1100	200-1100
Performing Site	Quest Diagnostics Nichols Institute, Valencia		

Phosphate (Phosphorus)			
Effective Date	9/15/2014		
Test Code	5308		
Reject Criteria	Gross hemolysis <b>Remove: Moderate hemolysis</b>		
Specimen Stability	Room temperature: 72 hours Refrigerated: 7 days Frozen: 28 days		
Reference Range	Age	Males (mg/dL)	Females (mg/dL)
	0-6 days:	4.0-9.0	4.0-9.0
	7 days-2 years:	4.0-8.0	4.0-8.0
	3-12 years:	3.0-6.0	3.0-6.0
	13-64 years:	2.5-4.5	2.5-4.5
	>64 years:	2.1-4.3	2.1-4.3
	<b>Not Provided:</b>	<b>2.5-4.5</b>	<b>2.5-4.5</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia		

PML-RARA t(15;17), Quantitative RT-PCR	
Effective Date	9/15/2014
Former Test Name	PML/RARA t(15;17), Quantitative Real-Time PCR, Cell-based
Former Test Code	S50330
Test Code	14994
Specimen Requirements	<p><b>Preferred:</b> 6 mL (4 mL minimum) whole blood collected in an EDTA (lavender-top) tube</p> <p><b>Acceptable:</b> Whole blood collected in an ACD solution A (yellow-top) tube or sodium heparin (green-top) tube</p> <p>3 mL (2 mL minimum) bone marrow collected in an EDTA (lavender-top) tube, ACD solution A (yellow-top) tube or sodium heparin (green-top) tube</p> <p><b>Remove EDTA (royal blue-top) tube from acceptable container types</b></p>
Reject Criteria	Received frozen whole blood or bone marrow; hemolysis
Instructions	<p>Collect 6 mL whole blood or 3 mL bone marrow in an EDTA (lavender-top) tube. Whole blood or bone marrow is shipped at room temperature or refrigerated (cold packs). Do not freeze whole blood or bone marrow.</p> <p>After collection of the sample, draw date and time, as well as sample type, must be written on the tube and included as requested information. Ship sample immediately, due to short stability of 72 hours. If the stability of the sample cannot be determined, delay in result or cancellation of test may occur.</p>

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	<b>Clotted specimens are unacceptable. Do not reject.</b>																
Set-up/Analytic Time	<b>Set up: Mon-Fri; Report available: 3-6 days</b>																
Always Message	<p><b>Methodology and Interpretation</b></p> <p><b>PML-RARA transcripts are associated with the t(15;17) chromosomal translocation seen in acute promyelocytic leukemia (APL). Quantitative RT-PCR is performed to detect the PML-RARA fusion transcript based on standardized protocols developed by BIOMED-1 Concerted Action and Europe Against Cancer (EAC) Program (Gabert et al, <i>Leukemia</i> 2003, 17:2318-2357). This assay detects the short form (bcr3), long form (bcr1) and the variant exon 6 (bcr2) PML-RARA transcripts. PML-RARA transcript levels are expressed as normalized copy number (NCN) of PML-RARA using ABL1 as internal control.</b></p> <p><b>Two or more positive PML-RARA PCR tests (NCN &gt;= 1) after therapy are a strong predictor of subsequent hematologic relapse in APL. Repeatedly negative PCR results, defined as NCN &lt;1, are associated with long-term survival in the majority of patients.</b></p> <p><b>The method of transcript quantitation in this assay has changed as of 9/18/2014. A PML-RARA NCN of 10 in the current assay corresponds approximately to a PML-RARA/ABL1 ratio of 0.001 in the old assay.</b></p> <p><b>The lower limit of PML-RARA+ leukemia detection in this assay is dependent on the quality of RNA obtained and the cellularity of the sample. Analytic assay sensitivity is determined at 1:100,000.</b></p> <p><b>This assay is a PCR-based test. Since genetic variation and other problems can affect the accuracy of PCR-based testing, the results should always be interpreted in light of clinical data. This test is performed pursuant to a license agreement with Roche Molecular Systems, Inc.</b></p> <p><b>This test was developed and its performance characteristics have been determined by Quest Diagnostics Nichols Institute, San Juan Capistrano. Performance characteristics refer to the analytical performance of the test.</b></p>																
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano																
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Type</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>86007404</td> <td>Prompt-Result</td> <td>Specimen Source:</td> </tr> <tr> <td>86008204</td> <td>Prompt-Result</td> <td>Sample ID</td> </tr> <tr> <td>86011244</td> <td></td> <td>PML-RARA transcript level</td> </tr> <tr> <td>86011251</td> <td></td> <td>Interpretation</td> </tr> </tbody> </table>		Result Code	Type	Result Name	86007404	Prompt-Result	Specimen Source:	86008204	Prompt-Result	Sample ID	86011244		PML-RARA transcript level	86011251		Interpretation
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86008204	Prompt-Result	Sample ID															
86011244		PML-RARA transcript level															
86011251		Interpretation															
Additional Information	Pricing Message: Negotiated pricing on S50330 will be applied to code 14994.																

<b>Protein, Total, Serum</b>					
Effective Date	9/15/2014				
Test Code	1324				
Reject Criteria	<p><b>Gross hemolysis</b></p> <p><b>Remove: icteric specimens</b></p>				
Performing Site	Quest Diagnostics Nichols Institute, Valencia				
Tests Affected	<table border="1"> <thead> <tr> <th>Test Codes:</th> <th>Name:</th> </tr> </thead> <tbody> <tr> <td>P48331A</td> <td>Custom NARH Immunofixation Panel</td> </tr> </tbody> </table>	Test Codes:	Name:	P48331A	Custom NARH Immunofixation Panel
Test Codes:	Name:				
P48331A	Custom NARH Immunofixation Panel				

<b>Renal Function Panel</b>	
Effective Date	9/15/2014

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Test Code	5314																							
Reject Criteria	Gross hemolysis <b>Remove: Moderate hemolysis</b>																							
Specimen Stability	<b>Room temperature: 72 hours</b> Refrigerated: 7 days Frozen: 28 days																							
Reference Range	<b>Phosphate (Phosphorus):</b> <table border="1"> <thead> <tr> <th>Age</th> <th>Males (mg/dL)</th> <th>Females (mg/dL)</th> </tr> </thead> <tbody> <tr> <td>0-6 days:</td> <td>4.0-9.0</td> <td>4.0-9.0</td> </tr> <tr> <td>7 days-2 years:</td> <td>4.0-8.0</td> <td>4.0-8.0</td> </tr> <tr> <td>3-12 years:</td> <td>3.0-6.0</td> <td>3.0-6.0</td> </tr> <tr> <td>13-64 years:</td> <td>2.5-4.5</td> <td>2.5-4.5</td> </tr> <tr> <td>&gt;64 years:</td> <td>2.1-4.3</td> <td>2.1-4.3</td> </tr> <tr> <td><b>Not Provided:</b></td> <td><b>2.5-4.5</b></td> <td><b>2.5-4.5</b></td> </tr> </tbody> </table> <b>Carbon Dioxide:</b> Bicarbonate: 19-30 mmol/L <b>High Altitude Reference Intervals (&gt;4000 Ft): 17 - 28 mmol/L</b>			Age	Males (mg/dL)	Females (mg/dL)	0-6 days:	4.0-9.0	4.0-9.0	7 days-2 years:	4.0-8.0	4.0-8.0	3-12 years:	3.0-6.0	3.0-6.0	13-64 years:	2.5-4.5	2.5-4.5	>64 years:	2.1-4.3	2.1-4.3	<b>Not Provided:</b>	<b>2.5-4.5</b>	<b>2.5-4.5</b>
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<b>Not Provided:</b>	<b>2.5-4.5</b>	<b>2.5-4.5</b>																						
Performing Site	Quest Diagnostics Nichols Institute, Valencia																							

Thiopurine Metabolites	
Effective Date	9/15/2014
Test Code	91745
Reject Criteria	Heparin whole blood; frozen; <b>hemolysis</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia

TSH							
Effective Date	9/15/2014						
Former Test Code	3250						
Test Code	<b>899</b>						
Instructions	<b>Patient Preparation:</b> Specimen collection after fluorescein dye angiography should be delayed for at least 3 days. For patients on hemodialysis, specimen collection should be delayed for 2 weeks. According to the assay manufacturer Siemens: "Samples containing fluorescein can produce falsely depressed values when tested with the ADVIA Centaur TSH3 Ultra assay."						
Performing Site	Quest Diagnostics Nichols Institute, Valencia						
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> <th>Unit of Measure</th> </tr> </thead> <tbody> <tr> <td>55080400</td> <td>TSH</td> <td>mIU/L</td> </tr> </tbody> </table>	Result Code	Result Name	Unit of Measure	55080400	TSH	mIU/L
Result Code	Result Name	Unit of Measure					
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Additional Information	According to the assay manufacturer Siemens: "In general, the fluorescein clearance (requires) about 48 to 72 hours." For patients in "end stage renal disease on						

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	hemodialysis, the elimination will be delayed likely by several cycles of hemodialysis. Assuming the dialysis cycle serves as one half-life (and) using the rule of thumb that 5 half-lives are required to completely eliminate a compound, two weeks is conservative (if) dialysis is performed 3 times per week."	
Tests Affected	<b>Test Codes:</b>	<b>Name:</b>
	2016	Infertility: Endocrine Evaluations (Female)
	3060	Thyroid Abs Evaluation
	3072	Thyroid Panel, Hyperthyroidism
	3074	Thyroid Panel, Hypothyroidism
	3250SR	Thyroid Stimulating Hormone w/ Serial Graph
	1090	Thyrotropin Receptor Autoantibodies w/ TSH

Chronic Urticaria Panel 2		
Effective Date	9/15/2014	
Test Code	90123	
Instructions	<b>899- TSH</b> <b>Patient Preparation:</b> <b>Specimen collection after fluorescein dye angiography should be delayed for at least 3 days. For patients on hemodialysis, specimen collection should be delayed for 2 weeks. According to the assay manufacturer Siemens: "Samples containing fluorescein can produce falsely depressed values when tested with the ADVIA Centaur TSH3 Ultra assay."</b>	
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano	
Additional Information	<b>899- TSH</b> According to the assay manufacturer Siemens: "In general, the fluorescein clearance (requires) about 48 to 72 hours." For patients in "end stage renal disease on hemodialysis, the elimination will be delayed likely by several cycles of hemodialysis. Assuming the dialysis cycle serves as one half-life (and) using the rule of thumb that 5 half-lives are required to completely eliminate a compound, two weeks is conservative (if) dialysis is performed 3 times per week."	
Tests Affected	<b>Test Codes:</b>	<b>Name:</b>
	S52476	TSH with HAMA Treatment

Uric Acid	
Effective Date	9/15/2014
Test Code	1310
Reject Criteria	<b>Remove: Avoid hemolysis</b>
Performing Site	Quest Diagnostics Nichols Institute, Valencia

**Discontinued Tests**

Echinococcus (p2) IgE	
Effective Date	9/8/2014

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Test Code	P2
Additional Information	This test code will be discontinued. There is no recommended alternative.

Antiviral Susceptibility, Acyclovir	
Effective Date	9/15/2014
Test Code	S50504
Additional Information	There is no recommended alternative.

Antiviral Susceptibility, Foscarnet	
Effective Date	9/15/2014
Test Code	S50566
Additional Information	There is no recommended alternative.

Borrelia Burgdorferi IgG & IgM ABS IB + Bands															
Effective Date	9/15/2014														
Additional Information	The recommended alternative is test code 8593-Lyme Disease Antibodies (IgG, IgM) Immunoblot														
Tests Affected	<table border="1"> <thead> <tr> <th>Test Codes:</th> <th>Name:</th> </tr> </thead> <tbody> <tr> <td>7711BNY</td> <td>Borrelia Burgdorferi IgG &amp; IgM ABS IB+Bands (NY)</td> </tr> <tr> <td>REP</td> <td>Reflex Borrelia Burgdorferi IgG &amp; IgM ABS + Bands (IB;CDC)</td> </tr> <tr> <td>RKG</td> <td>Reflex Borrelia Burgdorferi IgG &amp; IgM ABS + Bands IB (NY)</td> </tr> <tr> <td>RJU</td> <td>Reflex Borrelia Burgdorferi IgG &amp; IgM ABS CSF IB (CDC)</td> </tr> <tr> <td>RNH</td> <td>Reflex Borrelia Burgdorferi IgG ABS IB + Bands (NY)</td> </tr> <tr> <td>RNI</td> <td>Reflex Borrelia Burgdorferi IgM ABS IB + Bands (NY)</td> </tr> </tbody> </table>	Test Codes:	Name:	7711BNY	Borrelia Burgdorferi IgG & IgM ABS IB+Bands (NY)	REP	Reflex Borrelia Burgdorferi IgG & IgM ABS + Bands (IB;CDC)	RKG	Reflex Borrelia Burgdorferi IgG & IgM ABS + Bands IB (NY)	RJU	Reflex Borrelia Burgdorferi IgG & IgM ABS CSF IB (CDC)	RNH	Reflex Borrelia Burgdorferi IgG ABS IB + Bands (NY)	RNI	Reflex Borrelia Burgdorferi IgM ABS IB + Bands (NY)
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RNI	Reflex Borrelia Burgdorferi IgM ABS IB + Bands (NY)														

Haptoglobin	
Effective Date	9/15/2014
Test Code	1517
Additional Information	The recommended alternative is test code 502-Haptoglobin

HIV-1 ABS [WB] (Blood Bank)	
Effective Date	9/15/2014
Test Code	3012T
Additional Information	The recommended alternative is test code 91432- HIV-1/2 Antibody Differentiation

HIV-1 ABS CSF [WB]	
Effective Date	9/15/2014

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Test Code	3012C
Additional Information	The recommended alternative is test code 91568- HIV-1 IgG Antibody, WB (CSF).

HIV-1/HIV-2 ABS w/Reflex WB & Hepatitis B Virus w/Neutral	
Effective Date	9/15/2014
Test Code	9928
Additional Information	There is no recommended alternative.

Measles IgG & IgM ABS													
Effective Date	9/15/2014												
Test Code	8771												
Additional Information	The recommended alternatives are: <ul style="list-style-type: none"> <li>• 8776- Measles Antibody (IgG)</li> <li>• 34256- Measles Antibody (IgM)</li> </ul>												
Tests Affected	<table border="1"> <thead> <tr> <th>Test Codes:</th> <th>Name:</th> </tr> </thead> <tbody> <tr> <td>P44513Q</td> <td>Custom Duncan Rubella &amp; Measles Panel - Employee</td> </tr> <tr> <td>P5688A</td> <td>Custom Jewish Mem Panel</td> </tr> <tr> <td>P33438C</td> <td>Custom Palm Drive Pre-Employment Panel</td> </tr> <tr> <td>P33438D</td> <td>Custom Palm Drive Pre-Employment Panel Non-Clinical</td> </tr> <tr> <td>1341</td> <td>Immune Status Panel - MMR</td> </tr> </tbody> </table>	Test Codes:	Name:	P44513Q	Custom Duncan Rubella & Measles Panel - Employee	P5688A	Custom Jewish Mem Panel	P33438C	Custom Palm Drive Pre-Employment Panel	P33438D	Custom Palm Drive Pre-Employment Panel Non-Clinical	1341	Immune Status Panel - MMR
Test Codes:	Name:												
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1341	Immune Status Panel - MMR												

Measles IgM ABS	
Effective Date	9/15/2014
Test Code	8781
Additional Information	The recommended alternative is test code 34256- Measles Antibody (IgM)

Treponema Pallidum Total ABS [Blood Bank]	
Effective Date	9/15/2014
Test Code	2104T
Additional Information	There is no recommended alternative.

VAP Cholesterol Test	
Effective Date	11/3/2014
Test Code	S50365
Additional Information	The recommended alternative is 92145 - Cardiac IQ® Advanced Lipid Panel, performed at Quest Diagnostics, Nichols Institute, San Juan Capistrano.

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Pricing Message: Due to the suggested replacement negotiated fees will not be copied.

**New York Patient Testing Update**

Chikungunya Virus RNA, Qualitative Real-Time PCR	
Message	<b><i>**This test is now available for New York patient testing**</i></b>
Test Code	S52326