

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

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 #
37400	Cell Surface Marker, Individual	6/5/2012	3
40083	Factor VIII Inhibitor Panel	6/5/2012	4
36573	Hexagonal Phase Neutralization	6/5/2012	5
7079	Lupus Anticoagulant Evaluation with Reflex	6/5/2012	6
37088	Natural Killer Cells	6/5/2012	7
5341	Platelet Antibody, Indirect (IgG)	6/5/2012	8
10678	Platelet Glycoprotein Antibody	6/5/2012	9
11051	Thrombosis Panel	6/5/2012	9
5168	von Willebrand Antigen, Multimeric Analysis	6/5/2012	10
19790	von Willebrand Comprehensive Panel	6/5/2012	11

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 #
1415		Diphtheria Toxoid IgG Antibodies	4/26/2012	12
2418		Cytomegalovirus Culture	6/5/2012	12
1160		Erythropoietin	6/5/2012	12
5906		Hepatitis Autoimmune EvaluatR™ PLUS	6/5/2012	13
4875		Selenium	6/5/2012	14
3250		TSH	6/5/2012	14

REDIRECTS				
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 #
22	5900	Activated Protein C Resistance	6/5/2012	14
19704	5901	Activated Protein C Resistance with Reflex to Factor V (Leiden) Mutation	6/5/2012	15
9759	1081	Antiphospholipid Antibody Panel	6/5/2012	16
216	5951	Antithrombin III Activity	6/5/2012	16
7017	5952	Antithrombin III Activity and Antigen	6/5/2012	17
5158	3253	Antithrombin III Antigen	6/5/2012	17
36552	1184	Beta-2-Glycoprotein I (Beta-2-GPI) IgA Autoantibodies	6/5/2012	18
36554	1182	Beta-2-Glycoprotein I (Beta-2-GPI) IgG Autoantibodies	6/5/2012	19

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

30340	1083	Beta-2-Glycoprotein I (Beta-2-GPI) IgG, IgM & IgA Autoantibodies	6/5/2012	19
36553	1183	Beta-2-Glycoprotein I (Beta-2-GPI) IgM Autoantibodies	6/5/2012	20
4662	3372	Cardiolipin Antibodies (IgG)	6/5/2012	21
7352	3371	Cardiolipin Antibodies (IgG, IgA, IgM)	6/5/2012	21
36333	3375	Cardiolipin Antibodies (IgG, IgM)	6/5/2012	22
4661	3374	Cardiolipin Antibody (IgA)	6/5/2012	23
4663	3373	Cardiolipin Antibody (IgM)	6/5/2012	23
15780	15780	DRVVT Screen w/Rfl DRVVT Confirm & DRVVT 1:1 Mix	6/5/2012	24
347	1947	Factor VIII Activity, Clotting	6/5/2012	24
461	1426	Fibrinogen Activity, Clauss	6/5/2012	25
414	5945	Heparin-Induced Platelet Antibody	6/5/2012	25
528	1350	HLA-B27 Antigen	6/5/2012	25
9762	5963	Lupus Anticoagulant Evaluation with Reflex	6/5/2012	26
71978	71978	Lymphocyte Subset Panel 1	6/5/2012	27
36420	36420	Lymphocyte Subset Panel 2	6/5/2012	27
71958	71958	Lymphocyte Subset Panel 3	6/5/2012	27
79248	79248	Lymphocyte Subset Panel 4	6/5/2012	27
83608	83608	Lymphocyte Subset Panel 5	6/5/2012	27
8922	3890	Mixing Study	6/5/2012	28
763	3895	Partial Thromboplastin Time, Activated (aPTT)	6/5/2012	28
39457	5992	Protein C & Protein S, Functional	6/5/2012	29
1777X	3836	Protein C Activity	6/5/2012	30
8757	5933	Protein C Activity and Antigen	6/5/2012	30
4948	5932	Protein C Antigen	6/5/2012	31
1779X	3837	Protein S Activity	6/5/2012	32
7039	5938	Protein S Activity and Antigen, Total	6/5/2012	32
10170	5935	Protein S Antigen, Free	6/5/2012	33
5165	5937	Protein S Antigen, Total	6/5/2012	34
8847	3892	Prothrombin Time with INR	6/5/2012	34
4459	1871	Ristocetin Cofactor	6/5/2012	35
39588	1658	T and B Cells, Total	6/5/2012	35
883	4210	Thrombin Clotting Time	6/5/2012	36
4919X	1907	von Willebrand Factor Antigen	6/5/2012	36
9761	5961	von Willebrand Panel	6/5/2012	37

DISCONTINUED TESTS

Please Note: Not all test codes assigned to each assay are listed in the table of contents.

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Please refer to the complete listing on the page numbers indicated.

Test Code	Test Name	Effective Date	Page #
5310	BAALC (Brain and Acute Leukemia, Cytoplasmic) UltraQuant®	6/5/2012	37
5991	Cardiovascular Thrombotic Risk AssessR™	6/5/2012	37
1687	CD16/56 Surface Marker	6/5/2012	38
1688	CD19 Surface Marker	6/5/2012	38
1683	CD3 Surface Marker	6/5/2012	38
1684	CD4 Surface Marker	6/5/2012	38
1685	CD8 Surface Marker	6/5/2012	38
1967	Factor VIII Inhibitor	6/5/2012	38
5965	Hereditary Thrombosis Screen A, No Heparin or Coumadin	6/5/2012	38
9872	HIV-1 RNA Quantitative, bDNA & CD4 Cell Count	6/5/2012	39
1910	Lupus Anticoagulant AssessR™	6/5/2012	39
1915	Lupus Anticoagulant: Hexagonal Phase	6/5/2012	39
5976	Lupus Anticoagulant: Screen 2	6/5/2012	39
5962	Lupus Anticoagulant: Screen 3	6/5/2012	39
1872	Natural Killer Cell Quantitation	6/5/2012	39
6104	Platelet Associated Glycoprotein (Direct) Ab	6/5/2012	39
6100	Platelet Glycoprotein (Direct & Indirect) Abs	6/5/2012	40
6102	Platelet Glycoprotein (Indirect) Autoabs	6/5/2012	40
5957	Platelet Glycoprotein Ia/IIa Total Autoantibodies	6/5/2012	40
5955	Platelet Glycoprotein Ib/Ix Total Autoantibodies	6/5/2012	40
5956	Platelet Glycoprotein IIb/IIIa Total Autoantibodies	6/5/2012	40
5990	Thrombotic Risk AssessR™	6/5/2012	40
5972	Thrombotic Risk Evaluation 1	6/5/2012	40
5971	Thrombotic Risk Evaluation 2	6/5/2012	40
5973	Thrombotic Risk Evaluation 3	6/5/2012	41
5981	von Willebrand Evaluation with Multimers	6/5/2012	41
5984	von Willebrand Evaluation without Multimers	6/5/2012	41
1905	von Willebrand Factor Multimers Panel	6/5/2012	41
1906	von Willebrand Multimers	6/5/2012	41

New Test Offerings

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

Cell Surface Marker, Individual	
Message	Suggested replacement for discontinued test codes 1683 CD3 Surface Marker, 1684 CD4 Surface Marker, 1685 CD8 Surface Marker, 1687 CD16/56 Surface Marker, 1688 CD19 Surface Marker

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Effective Date	6/5/2012						
Test Code	37400						
CPT Codes	86356						
Specimen Requirements	5 mL room temperature Whole blood (1 mL minimum) in Sodium heparin (green-top) or in ACD solution B (yellow-top) or in EDTA (lavender-top) or in EDTA (royal blue-top) or in Sodium heparin (green-top) Alternate: 2 mL Bone marrow (1 mL minimum) in Sodium heparin (green-top); ACD solution B (yellow-top); EDTA (lavender-top); EDTA (royal blue-top); Lithium heparin (green-top)						
Reject Criteria	Received frozen, Bronchial washings						
Instructions	5 mL (1.0 mL) Whole Blood or 2 mL (1.0) Bone Marrow or Fresh Tissue in tissue culture media (such as RPMI). Must specify CD marker (call laboratory for availability of CD markers available). Do not freeze.						
Transport Temperature	Whole blood in Sodium heparin (green-top) or in ACD solution B (yellow-top) or in EDTA (lavender-top) or in EDTA (royal blue-top) or in Sodium heparin (green-top) Room temperature preferred; Frozen unacceptable Bone marrow in Sodium heparin (green-top); ACD solution B (yellow-top); EDTA (lavender-top); EDTA (royal blue-top); Lithium heparin (green-top) Room temperature: 48 Hours						
Specimen Stability	Room temperature: 48 Hours						
Set-up/Analytic Time	Sets up Sun, Mon, Tue, Wed, Thu, Fri, Sat; Report Available: 1 to 2 days.						
Reference Range	% of Gated Cell Population						
Always Message	The results of this test should be interpreted in conjunction with the other clinical and pathologic features of this patient. This test was developed and its performance characteristics have been determined by Quest Diagnostics Nichols Institute, San Juan Capistrano. It has not been cleared or approved by the U.S. Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. Performance characteristics refer to the analytical performance of the test.						
Methodology	Flow Cytometry						
Assay Category	Laboratory Developed Test						
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano						
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>3271</td> <td>Cell Surface Marker</td> </tr> <tr> <td>30614</td> <td>% of Gated Cell Population</td> </tr> </tbody> </table>	Result Code	Result Name	3271	Cell Surface Marker	30614	% of Gated Cell Population
Result Code	Result Name						
3271	Cell Surface Marker						
30614	% of Gated Cell Population						

Factor VIII Inhibitor Panel	
Message	Suggested replacement for discontinued test code 1967 Factor VIII Inhibitor
Clinical Significance	The presence of alloantibodies against factor VIII activity is a complication of treatment in hemophilia A, while the presence of autoantibodies may develop spontaneously in patients with acquired Factor VIII-C deficiency. The presence of Factor VIII inhibitor may lead to the neutralization (inactivation) of transfused or endogenous Factor VIII activity. The detection and magnitude of Factor VIII inhibitor is of great importance in the care of these patients. Factor VIII inhibitor EIA assay provides a quick method for the detection of Factor VIII inhibitor with less sample volume.
Effective Date	6/5/2012
Test Code	40083
CPT Codes	85240, 85335
Specimen Requirements	2 mL (1.0) plasma collected in 3.2% sodium citrate (lt. blue-top) tubes [x3]

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Instructions	Submit a total of 6 mL, 2 mL in each of 3 tubes. Centrifuge light blue-top tube 15 minutes at approx. 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Freeze immediately and ship on dry ice.										
Transport Temperature	Frozen										
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 14 days										
Set-up/Analytic Time	Set up: Mon, Wed; Report available: 4-9 days										
Reference Range	See Laboratory Report										
Methodology	See individual assays										
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano										
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>4344</td> <td>Factor VIII Inhibitor, EIA</td> </tr> <tr> <td>29240</td> <td>Factor VIII Activity</td> </tr> <tr> <td>29241</td> <td>Factor VIII Inhibitor</td> </tr> <tr> <td>29242</td> <td>NijmegenAssay</td> </tr> </tbody> </table>	Result Code	Result Name	4344	Factor VIII Inhibitor, EIA	29240	Factor VIII Activity	29241	Factor VIII Inhibitor	29242	NijmegenAssay
Result Code	Result Name										
4344	Factor VIII Inhibitor, EIA										
29240	Factor VIII Activity										
29241	Factor VIII Inhibitor										
29242	NijmegenAssay										

Hexagonal Phase Neutralization	
Message	Suggested replacement for discontinued test code 1915 Lupus Anticoagulant: Hexagonal Phase
Clinical Significance	This test is useful in determining the presence of the lupus anticoagulant that is associated with increased risk of thrombosis.
Effective Date	6/5/2012
Test Code	36573
CPT Codes	85598
Specimen Requirements	1.5 mL 3.2% sodium citrate (lt. blue-top) plasma
Reject Criteria	Received room temperature; Received refrigerated; Hemolysis
Instructions	Platelet Poor Plasma: Centrifuge light blue-top tube 15 minutes at approx. 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Freeze immediately and ship on dry ice.
Transport Temperature	Frozen
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 90 Days
Set-up/Analytic Time	Set up: Mon-Sat; Report available: 3 days
Reference Range	NEGATIVE
Methodology	Hexagonal Phospholipid Neutralization Clot Assay
Assay Category	FDA Approved/Cleared
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

CPU Mappings	Result Code	Result Name
	30035850	Hexagonal Phase Neutraliza

Lupus Anticoagulant Evaluation with Reflex

Message	Suggested replacement for discontinued test code 1910 Lupus Anticoagulant AssessR™ If PTT-LA is prolonged (>40 seconds), the Hexagonal Phase Confirmation will be performed at an additional charge. If dRVVT screen is prolonged (>45 seconds), the dRVVT Confirmation will be performed at an additional charge. If dRVVT Confirm is positive, a dRVVT 1:1 dilution will be performed at an additional charge.										
Clinical Significance	Lupus Anticoagulants (LA) are members of a family of antibodies with phospholipid specificity. LA may be defined as an immunoglobulin (S), IgG or IgM or a mixture of both, that interferes with one or more of the invitro phospholipid (PL) dependent tests of coagulation. These antibodies are not associated with a hemorrhagic diathesis, but rather have been linked to thrombotic events. It is not known whether the antibody is causative, coincidental or a consequence of the thrombosis. In addition to thrombosis, other clinical complications have been associated with the presence of LA. These include strokes, nonbacterial thrombotic endocarditis, livedo reticularis and a variety of obstetrical complications such as intrauterine fetal death, recurrent spontaneous abortion, fetal growth retardation, early onset preeclampsia and chorea gravidarum.										
Effective Date	6/5/2012										
Test Code	7079										
CPT Codes	85730; 85613										
Specimen Requirements	3 mL 3.2% sodium citrate (lt. blue-top) plasma										
Reject Criteria	Received thawed										
Instructions	Platelet Poor Plasma: Centrifuge light blue-top tube 15 minutes at approx. 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Freeze immediately and ship on dry ice.										
Transport Temperature	Frozen										
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 90 Days										
Set-up/Analytic Time	Set up: Mon-Sat; Report available: 2 days										
Reference Range	Lupus Anticoagulant: Not Detected PTT-LA: < or = 40 seconds Hexagonal Phase Confirm: Negative dRVVT Screen: < or = 45 seconds dRVVT Confirm: Negative dRVVT 1:1 Mix: Corrected										
Methodology	Photo-Optical Clot Detection										
Assay Category	FDA Approved/Cleared										
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano										
CPU Mappings	<table border="1"> <tr> <td colspan="2">Lupus Anticoagulant</td> </tr> <tr> <td>Result Code</td> <td>Result Name</td> </tr> <tr> <td>30035900</td> <td>Lupus Anticoagulant</td> </tr> <tr> <td>30035205</td> <td>PTT-LA Screen</td> </tr> <tr> <td colspan="2">Hexagonal Phase Confirm</td> </tr> </table>	Lupus Anticoagulant		Result Code	Result Name	30035900	Lupus Anticoagulant	30035205	PTT-LA Screen	Hexagonal Phase Confirm	
Lupus Anticoagulant											
Result Code	Result Name										
30035900	Lupus Anticoagulant										
30035205	PTT-LA Screen										
Hexagonal Phase Confirm											

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	Result Code	Result Name
	30035850	Hexagonal Phase Confirm
	dRVVT Screen	
	Result Code	Result Name
	30035405	dRVVT Screen
	dRVVT Confirm	
	Result Code	Result Name
	30035350	dRVVT Confirm
	dRVVT 1:1 Mix	
	Result Code	Result Name
	30035360	dRVVT 1:1 Mix
	30035380	dRVVT Mix Interpretation

Natural Killer Cells																							
Message	Suggested replacement test code for discontinued test 1872 Natural Killer Cell Quantitation																						
Clinical Significance	This test measures Natural Killer cells. Measurement of NK cells is useful in the diagnosis of retinoblastomas, medullblastomas, astrocytomas, and neuroblastomas.																						
Effective Date	6/5/2012																						
Test Code	37088																						
CPT Codes	86357																						
Specimen Requirements	5 mL EDTA (lavender-top) whole blood																						
Reject Criteria	Received frozen																						
Instructions	Do not freeze. Do not transfer whole blood to M4. Submit the EDTA tubes at room temperature.																						
Transport Temperature	Room temperature																						
Specimen Stability	Room temperature: 72 hours Refrigerated: Unacceptable -20°C Frozen: Unacceptable -70°C Frozen: Unacceptable																						
Set-up/Analytic Time	Set up: Mon-Sun; Report available: 2 days																						
Reference Range	Lymphocytes, Absolute: Reference Ranges for Absolute Lymphocyte Count: <table border="0"> <thead> <tr> <th>Age</th> <th>cells/uL</th> </tr> </thead> <tbody> <tr> <td>0-3.9 days:</td> <td>2000-11500</td> </tr> <tr> <td>4 days-2.9 wks:</td> <td>2000-17000</td> </tr> <tr> <td>3 wks-1.9 mos:</td> <td>2500-16500</td> </tr> <tr> <td>2-2.9 mos:</td> <td>3300-15000</td> </tr> <tr> <td>3-6.9 mos:</td> <td>4000-13500</td> </tr> <tr> <td>7 mos-2.9 yrs:</td> <td>4000-10500</td> </tr> <tr> <td>3-6.9 yrs:</td> <td>2000-8000</td> </tr> <tr> <td>7-12.9 yrs:</td> <td>1500-6500</td> </tr> <tr> <td>13-18.9 yrs:</td> <td>1200-5200</td> </tr> <tr> <td>19-133 yrs:</td> <td>850-3900</td> </tr> </tbody> </table>	Age	cells/uL	0-3.9 days:	2000-11500	4 days-2.9 wks:	2000-17000	3 wks-1.9 mos:	2500-16500	2-2.9 mos:	3300-15000	3-6.9 mos:	4000-13500	7 mos-2.9 yrs:	4000-10500	3-6.9 yrs:	2000-8000	7-12.9 yrs:	1500-6500	13-18.9 yrs:	1200-5200	19-133 yrs:	850-3900
Age	cells/uL																						
0-3.9 days:	2000-11500																						
4 days-2.9 wks:	2000-17000																						
3 wks-1.9 mos:	2500-16500																						
2-2.9 mos:	3300-15000																						
3-6.9 mos:	4000-13500																						
7 mos-2.9 yrs:	4000-10500																						
3-6.9 yrs:	2000-8000																						
7-12.9 yrs:	1500-6500																						
13-18.9 yrs:	1200-5200																						
19-133 yrs:	850-3900																						

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	<p>CD3-CD16+CD56+ (Abs): Reference Ranges for CD3-CD16+CD56 Absolute:</p> <table border="1"> <thead> <tr> <th>Age</th> <th>cells/uL</th> </tr> </thead> <tbody> <tr> <td>1-11.9 Months</td> <td>160-930</td> </tr> <tr> <td>1-2 Years</td> <td>95-620</td> </tr> <tr> <td>3-6 Years</td> <td>60-540</td> </tr> <tr> <td>7-12 Years</td> <td>70-500</td> </tr> <tr> <td>13-18 Years</td> <td>60-430</td> </tr> <tr> <td>Adults (>18 Years)</td> <td>70-760</td> </tr> </tbody> </table> <p>CD3-/CD16+CD56+ (%): Reference Ranges for CD3-CD16+CD56 %:</p> <table border="1"> <thead> <tr> <th>Age</th> <th>Percent</th> </tr> </thead> <tbody> <tr> <td>1-11.9 Months</td> <td>3-14</td> </tr> <tr> <td>1-2 Years</td> <td>2-16</td> </tr> <tr> <td>3-6 Years</td> <td>3-20</td> </tr> <tr> <td>7-12 Years</td> <td>3-19</td> </tr> <tr> <td>13-18 Years</td> <td>3-18</td> </tr> <tr> <td>Adults (>18 Years)</td> <td>4-25</td> </tr> </tbody> </table>	Age	cells/uL	1-11.9 Months	160-930	1-2 Years	95-620	3-6 Years	60-540	7-12 Years	70-500	13-18 Years	60-430	Adults (>18 Years)	70-760	Age	Percent	1-11.9 Months	3-14	1-2 Years	2-16	3-6 Years	3-20	7-12 Years	3-19	13-18 Years	3-18	Adults (>18 Years)	4-25
Age	cells/uL																												
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Assay Category	FDA Approved/Modified																												
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano																												
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> <th></th> </tr> </thead> <tbody> <tr> <td>10617</td> <td>WBC/Lymphs</td> <td></td> </tr> <tr> <td colspan="3">Phenotyping</td> </tr> <tr> <th>Result Code</th> <th colspan="2">Result Name</th> </tr> <tr> <td>10631</td> <td colspan="2">Natural Killer Cells</td> </tr> <tr> <td>10632</td> <td colspan="2">CD3-CD16+CD56+ (Abs)</td> </tr> <tr> <td>10633</td> <td colspan="2">CD3-/CD16+CD56+ (%)</td> </tr> </tbody> </table>	Result Code	Result Name		10617	WBC/Lymphs		Phenotyping			Result Code	Result Name		10631	Natural Killer Cells		10632	CD3-CD16+CD56+ (Abs)		10633	CD3-/CD16+CD56+ (%)								
Result Code	Result Name																												
10617	WBC/Lymphs																												
Phenotyping																													
Result Code	Result Name																												
10631	Natural Killer Cells																												
10632	CD3-CD16+CD56+ (Abs)																												
10633	CD3-/CD16+CD56+ (%)																												

Platelet Antibody, Indirect (IgG)	
Message	Suggested replacement for discontinued test code 6102 Platelet Glycoprotein (Indirect) Autoabs
Clinical Significance	Neonatal alloimmune thrombocytopenia (NAIT) results from the placental transfer of maternal antiplatelet IgG antibody (alloantibody) formed against incompatible fetal platelet antigens. Indirect antibody may also be present in post-transfusion purpura (PTP).
Effective Date	6/5/2012
Test Code	5341
CPT Codes	86022
Specimen Requirements	1.5 mL red-top (no gel) serum (SST is acceptable)
Transport Temperature	Frozen
Specimen Stability	Room temperature: 48 hours Refrigerated: 48 hours Frozen: 30 days
Set-up/Analytic Time	Set up: Mon-Sat; Report available: 2 days
Reference Range	NEGATIVE
Always Message	The Indirect APA assay detects alloantibodies directed against platelet and/or HLA Class I antigens. This test is most

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	often used to evaluate neonatal alloimmune thrombocytopenia (NAIT) and post transfusion purpura. NAIT is associated with the presence of platelet specific antibodies. HLA Class I antibodies are common in pregnancy. Involvement of HLA Class I antibodies in NAIT has been suspected in a few cases, but a true association has not been proven. Clinical correlations are necessary for diagnosis.				
Methodology	Enzyme Immunoassay				
Assay Category	FDA Approved/Cleared				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>40052200</td> <td>Indirect (IgG)</td> </tr> </tbody> </table>	Result Code	Result Name	40052200	Indirect (IgG)
Result Code	Result Name				
40052200	Indirect (IgG)				

Platelet Glycoprotein Antibody					
Message	Suggested replacement for discontinued test code 6104 Platelet Associated Glycoprotein (Direct) Abs				
Clinical Significance	Platelet Glycoprotein Antibody is associated with autoimmune thrombocytopenic purpura (ATP) sometimes observed in patients with lymphoma, systemic lupus erythematosus (SLE), and HIV infection.				
Effective Date	6/5/2012				
Test Code	10678				
CPT Codes	86022				
Specimen Requirements	7 mL [x2] EDTA (lavender-top) whole blood				
Reject Criteria	Received refrigerated; Received frozen				
Instructions	Instruction: Samples are stabilized 6 days per week, Mon - Sat. Samples must arrive by 6 am to be stabilized the same day. Please do not draw/ship samples late Fri, Sat, or Sun due to the short (72 hour) stability of the samples. Note: Samples stabilized on a setup day will not be set up until the following setup day.				
Transport Temperature	Room temperature				
Specimen Stability	Room temperature: 72 hours Refrigerated: Unacceptable Frozen: Unacceptable				
Set-up/Analytic Time	Set up: Mon/Thu; Report available: 3 days				
Reference Range	NEGATIVE				
Always Message	This assay is designed to detect autoantibodies with platelet glycoproteins IIb/IIIa, Ib/IX and Ia/IIa of IgA, IgM and IgG isotypes. Autoantibodies to other platelet proteins are not expected to react in this assay. It is possible that an autoantibody could give a false negative result in this assay due to steric hindrance of the autoantibody by the murine monoclonal antibodies used to capture the platelet glycoprotein.				
Methodology	Enzyme Linked Immunosorbent Immunoassay				
Assay Category	FDA Approved/Cleared				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>6258</td> <td>Platelet Glycoprotein Ab</td> </tr> </tbody> </table>	Result Code	Result Name	6258	Platelet Glycoprotein Ab
Result Code	Result Name				
6258	Platelet Glycoprotein Ab				

Thrombosis Panel	
Message	Suggested replacement for discontinued test code 5972 Thrombotic Risk Evaluation 1

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Effective Date	6/5/2012													
Test Code	11051													
CPT Codes	85300, 85303, 85306, 85307													
Specimen Requirements	5 mL (2.5) plasma collected in 3.2% sodium citrate (lt. blue-top) tube													
Reject Criteria	Thawed plasma													
Instructions	Platelet Poor Plasma: Centrifuge light blue-top tube 15 minutes at approx. 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Freeze immediately and ship on dry ice.													
Transport Temperature	Frozen													
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 14 days -70°: 6 months													
Set-up/Analytic Time	See individual assays													
Reference Range	See laboratory report													
Methodology	APTT-Based Assay (Clot-Based), Clotting Assay, Clot Detection, Chromogenic Substrate, RVVT Based Clot Assay													
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano													
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>27757</td> <td>Interpretation</td> </tr> <tr> <td>30021100</td> <td>Protein C Activity</td> </tr> <tr> <td>30021400</td> <td>Protein S Activity</td> </tr> <tr> <td>31000100</td> <td>Antithrombin III Activity</td> </tr> <tr> <td>85986710</td> <td>APC Resistance</td> </tr> </tbody> </table>		Result Code	Result Name	27757	Interpretation	30021100	Protein C Activity	30021400	Protein S Activity	31000100	Antithrombin III Activity	85986710	APC Resistance
Result Code	Result Name													
27757	Interpretation													
30021100	Protein C Activity													
30021400	Protein S Activity													
31000100	Antithrombin III Activity													
85986710	APC Resistance													

von Willebrand Antigen, Multimeric Analysis	
Message	Platelet Associated Glycoprotein (Direct) Abs 1906 von Willebrand Multimers
Clinical Significance	von Willebrand Disease is the most common hereditary bleeding disorder; it may also be acquired. von Willebrand Factor is necessary for platelet adhesion to injured endothelium. von Willebrand Factor Antigen, Multimeric Analysis is useful when type 2 Disease is suspected and to further categorize disease. For example, in type 2A, the loss of high molecular weight multimers is due to defective assembly and secretion or increased proteolysis.
Effective Date	6/5/2012
Test Code	5168
CPT Codes	85247
Specimen Requirements	1 mL 3.2% sodium citrate (lt. blue-top) plasma
Reject Criteria	Received room temperature; Received refrigerated; Hemolysis
Instructions	Note: Storage of whole blood at refrigerated temperatures prior to processing may lead to cryoprecipitate formation and falsely low Factor VIII and von Willebrand Factor studies. Platelet Poor Plasma: Centrifuge light blue-top tube 15 minutes at approx. 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Freeze immediately and ship on dry ice.

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Transport Temperature	Frozen				
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable -70°C Frozen: 6 months				
Set-up/Analytic Time	Set up: Mon-Fri; Report available: 4 days				
Reference Range	NORMAL				
Methodology	Electrophoresis				
Assay Category	Laboratory Developed Test				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>85992166</td> <td>vWf Ag, Multimeric</td> </tr> </tbody> </table>	Result Code	Result Name	85992166	vWf Ag, Multimeric
Result Code	Result Name				
85992166	vWf Ag, Multimeric				

von Willebrand Comprehensive Panel							
Message	Suggested replacement for discontinued test code 5981 von Willebrand Evaluation with Multimers						
Effective Date	6/5/2012						
Test Code	19790						
CPT Codes	85730; 85240; 85246; 85245; 85247						
Specimen Requirements	1 mL [x4] 3.2% sodium citrate (lt. blue-top) plasma						
Instructions	Note: Storage of whole blood at refrigerated temperatures prior to processing may lead to cryoprecipitate formation and falsely low Factor VIII and von Willebrand Factor studies. Platelet Poor Plasma: Centrifuge light blue-top tube 15 minutes at approx. 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Freeze immediately and ship on dry ice.						
Transport Temperature	Frozen						
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 14 days						
Set-up/Analytic Time	See individual assays						
Reference Range	Thromboplastin Time: 22-34 sec Coag Factor VIII Activity: 50-180 % normal vWF Ag: 50-217 % vWf: Ristocetin Co-Factor: 42-200 % normal vWf Ag, Multimeric: NORMAL						
Always Message	http://education.questdiagnostics.com/faq/vonWillebrand The therapeutic range for unfractionated heparin therapy is 1.5-2.5 times the mean of the reference interval. In patients in whom there is an apparent heparin resistance, a heparin level by an anti-Xa method is available.						
Assay Category	Laboratory Developed Test						
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano						
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>27753</td> <td>Interpretation</td> </tr> <tr> <td colspan="2">Partial Thromboplastin Time, Activated (aPTT)</td> </tr> </tbody> </table>	Result Code	Result Name	27753	Interpretation	Partial Thromboplastin Time, Activated (aPTT)	
Result Code	Result Name						
27753	Interpretation						
Partial Thromboplastin Time, Activated (aPTT)							

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	Result Code	Result Name
	250	Thromboplastin Time
	Factor VIII Activity, Clotting	
	Result Code	Result Name
	3600	Coag Factor VIII Activity
	von Willebrand Factor Antigen	
	Result Code	Result Name
	85991141	vWF Ag
	Ristocetin Cofactor	
	Result Code	Result Name
	3790	vWf: Ristocetin Co-Factor
	von Willebrand Antigen, Multimeric Analysis	
	Result Code	Result Name
	3275	vWf Ag, Multimeric

Test Changes

Diphtheria Toxoid IgG Antibodies						
Effective Date	4/26/2012					
Test Code	1415					
Assay Category	FDA Approved					
Tests Affected	<table border="1"> <thead> <tr> <th>Test Codes:</th> <th>Name:</th> </tr> </thead> <tbody> <tr> <td>1415P</td> <td>Diphtheria Toxoid IgG Antibodies, Pre/Post Vaccination</td> </tr> </tbody> </table>		Test Codes:	Name:	1415P	Diphtheria Toxoid IgG Antibodies, Pre/Post Vaccination
Test Codes:	Name:					
1415P	Diphtheria Toxoid IgG Antibodies, Pre/Post Vaccination					

Cytomegalovirus Culture	
Effective Date	6/5/2012
Test Code	2418
Instructions	<ol style="list-style-type: none"> Specimens should be collected early in the acute phase of infection. The chance of viral recovery is best during the first 3 days after onset and is greatly reduced beyond 5 days with many viruses. Source of specimen is required, please include on requisition. Place the following specimens into: <ol style="list-style-type: none"> sterile leak proof container: CSF, body fluids, urine, semen, saliva, biopsy or tissues, and bone marrow. viral transport media (M4, etc): respiratory samples (bronchial, lung, throat, nasal) Unacceptable specimens: Stool, whole blood, sputum, wooden swabs, and calcium alginate. All specimens except bone marrow, fluids and semen held more than 72 hours must be frozen at -70C (not -20C) or on dry ice. Do not freeze at -20C. Virus loses infectivity. Ship specimens on cold pack or on dry ice. M4 transport media (M4) and dacron-tipped swabs with plastic or fine-wire shafts available for use with M4 are provided. Please call Client Services, 800-421-4449 to request media.

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Erythropoietin																												
Clinical Significance	Erythropoietin is produced primarily by the kidney. Renal production of EPO is regulated by changes in oxygen availability. Under conditions of hypoxia, the level of EPO in the circulation increases and this leads to increased production of red blood cells. Primary polycythemia, or polycythemia vera, are caused by EPO-independent growth of erythrocytic progenitors from abnormal bone marrow stem cells and in most cases decreased levels of EPO are found in these patients. Conversely, various types of secondary polycythemia are associated with the production of elevated levels of EPO. The overproduction of EPO may be an adaptive response associated with conditions that produce tissue hypoxia, such as living at a high altitude, chronic obstructive pulmonary disease, cyanotic heart disease, sleep apnea, high oxygen affinity hemoglobinopathy, smoking, or localized renal hypoxia. In other instances, elevated EPO levels are the result of production by neoplastic cells. Cases of increased EPO have been reported in patients with renal carcinomas, polycystic kidney disease, Wilm's tumors, hepatomas, liver carcinomas, cerebellar hemangioblastomas, adrenal gland tumors and leiomyomas.																											
Effective Date	6/5/2012																											
Test Code	1160																											
Instructions	Transport at room temperature Rejection Criteria: Gross hemolysis or plasma. Due to diurnal variation, it is recommended that specimens be collected between 7:30 am and noon.																											
Specimen Stability	Room temperature: 10 days Refrigerated: 18 days Frozen: 28 days																											
Reference Range	<table border="1"> <thead> <tr> <th></th> <th>Male (mIU/mL)</th> <th>Female (mIU/mL)</th> </tr> </thead> <tbody> <tr> <td><1 yr</td> <td>not established</td> <td>not established</td> </tr> <tr> <td>1-3 yr</td> <td>1.7-17.9</td> <td>2.1-15.9</td> </tr> <tr> <td>4-6 yr</td> <td>3.5-21.9</td> <td>2.9-8.5</td> </tr> <tr> <td>7-9 yr</td> <td>1.0-13.5</td> <td>2.1-8.2</td> </tr> <tr> <td>10-12 yr</td> <td>1.0-14.0</td> <td>1.1-9.1</td> </tr> <tr> <td>13-15 yr</td> <td>2.2-14.4</td> <td>3.8-20.5</td> </tr> <tr> <td>16-18 yr</td> <td>1.5-15.2</td> <td>2.0-14.2</td> </tr> <tr> <td>>18 yr</td> <td>2.6-18.5</td> <td>2.6-18.5</td> </tr> </tbody> </table>		Male (mIU/mL)	Female (mIU/mL)	<1 yr	not established	not established	1-3 yr	1.7-17.9	2.1-15.9	4-6 yr	3.5-21.9	2.9-8.5	7-9 yr	1.0-13.5	2.1-8.2	10-12 yr	1.0-14.0	1.1-9.1	13-15 yr	2.2-14.4	3.8-20.5	16-18 yr	1.5-15.2	2.0-14.2	>18 yr	2.6-18.5	2.6-18.5
	Male (mIU/mL)	Female (mIU/mL)																										
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13-15 yr	2.2-14.4	3.8-20.5																										
16-18 yr	1.5-15.2	2.0-14.2																										
>18 yr	2.6-18.5	2.6-18.5																										
Methodology	Immunoassay																											

Hepatitis Autoimmune EvaluatR™ PLUS									
Message	Replaces HCV bDNA result items with HCV RT-PCR components.								
Effective Date	6/5/2012								
Test Code	5906								
Instructions	Separation Tubes or in two sterile tubes using Plasma in EDTA (Lavender-top) or a (White-top) PPT Vacutainer(TM) plasma preparation tube. Separate plasma from whole blood within 6 hours of collection by centrifugation at 800 to 1600 x g for 20 minutes at room temperature. Transfer the plasma from each tube into a properly identified, polypropylene screw cap vial and ship frozen. Please note: Plasma must be removed from centrifuged PPT tubes and transferred to specified screw cap vials and submitted frozen. Specimens will no longer be acceptable if plasma is still in original collection tube, EVEN IF SEPARATED BY CENTRIFUGATION. Specimens collected using heparin as the anticoagulant are unsuitable for this test.								
Specimen Stability	Plasma PPT Tube Refrigerated - 72 hour(s) / Frozen - 42 Day(s) Plasma EDTA Refrigerated - 72 hour(s) / Frozen - 42 Day(s)								
Reference Range	Replace component ranges: HCV RNA Quantitative bDNA & HCV RNA (log 10) with <table border="1"> <thead> <tr> <th>HCV RNA PCR</th> <th><43</th> <th>IU/mL</th> <th>RT-PCR</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	HCV RNA PCR	<43	IU/mL	RT-PCR				
HCV RNA PCR	<43	IU/mL	RT-PCR						

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	HCV RNA PCR (LOG 10)	<1.63	log 10 IU/mL	CALC
CPU Mappings	Result Code		Result Name	
	200357		HCV RNA PCR	
	210944		HCV RNA PCR (LOG 10)	

Selenium	
Clinical Significance	Selenium is an element of parental nutrition. Monitoring the Selenium concentration is useful in assessing parental nutrition, especially recent uptake. Concentrations are also monitored in children with propionic acidemia who require special diets with supplements.
Effective Date	6/5/2012
Test Code	4875
Specimen Requirements	2 (0.7) mL
Reject Criteria	Hemolysis
Instructions	Centrifuge serum or plasma specimens within 1 hour of collection. Immediately separate serum and plasma specimens from the cells into trace element collection vial(s).
Transport Temperature	Refrigerated
Specimen Stability	Ambient: 8 hours Refrigerated: 14 Days Frozen: 30 Days

TSH																	
Effective Date	6/5/2012																
Test Code	3250																
Reference Range	First Trimester 0.26 - 2.66 mIU/L Second Trimester 0.55 - 2.73 mIU/L Third Trimester 0.43 - 2.91 mIU/L																
Tests Affected	<table border="1"> <thead> <tr> <th>Test Codes:</th> <th>Name:</th> </tr> </thead> <tbody> <tr> <td>2016</td> <td>Infertility: Endocrine Evaluation (Female)</td> </tr> <tr> <td>3060</td> <td>Thyroid Antibodies Evaluation</td> </tr> <tr> <td>3072</td> <td>Thyroid Antibodies Evaluation</td> </tr> <tr> <td>3250SR</td> <td>Thyroid Stimulating Hormone w/Serial Report</td> </tr> <tr> <td>1091</td> <td>Thyroid Stimulating Immunoglobulins with TSH</td> </tr> <tr> <td>1090</td> <td>Thyrotropin Receptor Autoantibody with TSH</td> </tr> <tr> <td>3074</td> <td>Thyroid Panel, Hypothyroidism</td> </tr> </tbody> </table>	Test Codes:	Name:	2016	Infertility: Endocrine Evaluation (Female)	3060	Thyroid Antibodies Evaluation	3072	Thyroid Antibodies Evaluation	3250SR	Thyroid Stimulating Hormone w/Serial Report	1091	Thyroid Stimulating Immunoglobulins with TSH	1090	Thyrotropin Receptor Autoantibody with TSH	3074	Thyroid Panel, Hypothyroidism
Test Codes:	Name:																
2016	Infertility: Endocrine Evaluation (Female)																
3060	Thyroid Antibodies Evaluation																
3072	Thyroid Antibodies Evaluation																
3250SR	Thyroid Stimulating Hormone w/Serial Report																
1091	Thyroid Stimulating Immunoglobulins with TSH																
1090	Thyrotropin Receptor Autoantibody with TSH																
3074	Thyroid Panel, Hypothyroidism																

Redirects

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Activated Protein C Resistance					
Clinical Significance	To screen for APC-R associated with venous thromboembolic disorders.				
Effective Date	6/5/2012				
Former Test Code	5900				
Test Code	22				
Reject Criteria	Hemolysis, Thawed Plasma, Received room temperature, Received refrigerated, Clotted specimen, Serum				
Instructions	Separate platelet poor plasma. Transport and store frozen on dry ice. Hemolyzed specimens are not acceptable.				
Transport Temperature	Plasma: Frozen preferred; Room temperature unacceptable; Refrigerated unacceptable				
Specimen Stability	Room temperature: 1 Hour Refrigerated: 4 Hours Frozen: 6 Months				
Set-up/Analytic Time	Sets up 3 days a week; Report available: 2 days				
Reference Range	APC Resistance (UOM ratio) NORMAL: >2.1 BORDERLINE: 1.6-2.1 ABNORMAL: <1.6				
Always Message	Borderline values (i.e. ratios of 1.6-2.1) should be repeated if clinically warranted or followed up with genetic testing of R506Q. Any patient with an abnormal value (i.e. ratio <1.6) should have a Factor V Leiden R506Q mutation analysis performed for confirmation and genetic counseling.				
Methodology	RVVT Based Clot Assay				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>85986710</td> <td>APC Resistance</td> </tr> </tbody> </table>	Result Code	Result Name	85986710	APC Resistance
Result Code	Result Name				
85986710	APC Resistance				

Activated Protein C Resistance with Reflex to Factor V (Leiden) Mutation	
Effective Date	6/5/2012
Former Test Name	<i>Activated Protein C Resistance w/reflex Factor V GenotypR™</i>
Former Test Code	5901
Test Code	19704
Specimen Requirements	2 mL (1.0) frozen Plasma in 3.2% Sodium Citrate (lt. blue-top) and 4 mL (2.0) frozen Whole blood in EDTA (lavender-top) or in EDTA (royal blue-top) or in ACD solution B (yellow-top)
Reject Criteria	Hemolysis, Lipemia
Instructions	Platelet-poor plasma: Centrifuge light blue-top tube for 15 minutes at approximately 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcL). Freeze immediately and ship on dry ice. Whole Blood: Preferred shipping temperature is frozen, but room temperature shipping is acceptable.
Specimen Stability	Plasma: Room temperature: 1 Hour Refrigerated: 4 Hours

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	Frozen: 6 Months Whole blood: Room temperature: 8 Days Refrigerated: 8 Days Frozen: 30 Days	
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano	
CPU Mappings	Result Code	Result Name
	26703	APC Resistance
	4600	FACTOR V (LEIDEN)
	30034	Shared Assay Components

Antiphospholipid Antibody Panel			
Effective Date	6/5/2012		
Former Test Name	<i>Antiphospholipid Syndrome EvaluatR™</i>		
Former Test Code	1081		
Test Code	9759		
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano		
CPU Mappings	Result Code	Result Name	
	27752	Interpretation	
	3678	B2-Glycoprotein I (IgG) Ab	
	3749	B2-Glycoprotein I (IgM) Ab	
	3813	B2-Glycoprotein I (IgA) Ab	
	3895	Phos. Serine Ab IgA	
	280	Phos.Serine Ab IgG	
	8563	Phos.Serine Ab IgM	
	45000500	Cardiolipin Ab (IgM)	
	45000600	Cardiolipin Ab (IgA)	
	45000400	Cardiolipin Ab (IgG)	
	27091	dRVVT Screen	
	Reflex Confirm		
	27703	dRVVT Confirm	
	Reflex dRVVT 1:1 Mix		
	30129	dRVVT 1:1 Mix	
	30131	dRVVT Mix Interpretation	

Antithrombin III Activity	
Clinical Significance	Previously referred to as "antithrombin III," antithrombin is an inhibitor of several coagulation factors. Deficiency is

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	associated with hypercoagulation (increased risk of venous thrombosis). Concentrations may be decreased with liver disease, nephrotic syndrome, and other medical conditions.				
Effective Date	6/5/2012				
<i>Former Test Name</i>	<i>Antithrombin III Functional</i>				
<i>Former Test Code</i>	5951				
Test Code	216				
Specimen Requirements	1 mL (0.5) frozen platelet-poor plasma collected in 3.2% sodium citrate (light blue-top) tube				
Reject Criteria	Hemolysis, Thawed Plasma				
Instructions	Platelet Poor Plasma: Centrifuge light blue-top tube 15 minutes at approx. 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Freeze immediately and ship on dry ice.				
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 30 days				
Set-up/Analytic Time	Set up: Tues-Sat p.m.; Report available: 2 to 4 days				
Reference Range	80-120 % normal				
Always Message	The major differential diagnosis of a hereditary ATIII deficiency includes consumption (i.e. recent thrombosis or DIC), heparin therapy, and nephrotic range proteinuria. An elevated ATIII is not clinically significant.				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>31000100</td> <td>Antithrombin III Activity</td> </tr> </tbody> </table>	Result Code	Result Name	31000100	Antithrombin III Activity
Result Code	Result Name				
31000100	Antithrombin III Activity				

Antithrombin III Activity and Antigen			
Effective Date	6/5/2012		
<i>Former Test Name</i>	<i>Antithrombin III Evaluation</i>		
<i>Former Test Code</i>	5952		
Test Code	7017		
Specimen Requirements	1 mL (0.5) plasma collected in a 3.2% Sodium Citrate (lt. blue-top) tube [x2]		
Reject Criteria	Thawed Plasma		
Instructions	Do not thaw. Hemolyzed specimens are not acceptable. Refer to Quest Diagnostics Nichols Institute Directory of Services under Specimen Collection section, Coagulation Testing for further information on specimen processing. Platelet Poor Plasma:Centrifuge light blue-top tube 15 minutes at approx. 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Freeze immediately and ship on dry ice		
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 21 days		
Reference Range	See Laboratory Report		
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano		
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> </tbody> </table>	Result Code	Result Name
Result Code	Result Name		

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	31000100	Antithrombin III Activity
	752	Antithrombin III, Antigen

Antithrombin III Antigen					
Clinical Significance	Previously referred to as "antithrombin III," antithrombin is an inhibitor of several coagulation factors. Patients with low concentrations of Antithrombin Antigen may have a hereditary or acquired prothrombotic state. The Antigen test differentiates a Type I from Type II deficiency.				
Effective Date	6/5/2012				
Former Test Name	Antithrombin III Evaluation				
Former Test Code	3253				
Test Code	5158				
Specimen Requirements	1 mL (0.5) plasma collected in a 3.2% Sodium Citrate (lt. blue-top) tube				
Instructions	Platelet Poor Plasma: Centrifuge light blue-top tube 15 minutes at approx. 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Freeze immediately and ship on dry ice				
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 21 days				
Set-up/Analytic Time	Set up: 2 days a week p.m.; Report available: 2 days				
Reference Range	See Laboratory Report				
Methodology	Fixed Rate Time Nephelometry				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>752</td> <td>Antithrombin III, Antigen</td> </tr> </tbody> </table>	Result Code	Result Name	752	Antithrombin III, Antigen
Result Code	Result Name				
752	Antithrombin III, Antigen				

Beta-2-Glycoprotein I (Beta-2-GPI) IgA Autoantibodies	
Clinical Significance	Beta-2-Glycoprotein 1, apolipoprotein H, is a cofactor in antiphospholipid antibody binding and is the critical antigen in the antiphospholipid antibody syndrome. Beta-2-Glycoprotein 1 Antibody is more specific than Cardiolipin Antibody that may express reactivity in patients with syphilis and other infectious diseases
Effective Date	6/5/2012
Former Test Name	Beta-2-Glycoprotein I (Beta-2-GPI) IgA Autoabs
Former Test Code	1184
Test Code	36552
Specimen Requirements	1 mL (0.5 mL) plasma collected in 3.2% sodium citrate (lt. blue-top) tube Alternate: Serum
Reject Criteria	Hemolysis, Lipemia
Instructions	Plasma: Centrifuge light blue-top tube 15 minutes at approximately 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Serum: Centrifuge tube 15 minutes at approximately 1500 g within 60 minutes of collection.

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Transport Temperature	Room temperature				
Specimen Stability	Room temperature: 5 days Refrigerated: 14 days Frozen: 30 days				
Set-up/Analytic Time	Set up: 6 days a week a.m.; Report available: 4-5 days				
Reference Range	B2-Glycoprotein I (IgA) Ab ≤20 SAU				
Methodology	Immunoassay				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>3813</td> <td>B2-Glycoprotein I (IgA) Ab</td> </tr> </tbody> </table>	Result Code	Result Name	3813	B2-Glycoprotein I (IgA) Ab
Result Code	Result Name				
3813	B2-Glycoprotein I (IgA) Ab				

Beta-2-Glycoprotein I (Beta-2-GPI) IgG Autoantibodies					
Clinical Significance	Beta-2-Glycoprotein 1, apolipoprotein H, is a cofactor in antiphospholipid antibody binding and is the critical antigen in the antiphospholipid antibody syndrome. Beta-2-Glycoprotein 1 Antibody is more specific than Cardiolipin Antibody that may express reactivity in patients with syphilis and other infectious diseases				
Effective Date	6/5/2012				
Former Test Name	<i>Beta-2-Glycoprotein I (Beta-2-GPI) IgG Autoabs</i>				
Former Test Code	1182				
Test Code	36554				
Specimen Requirements	1 mL (0.5 mL) plasma collected in 3.2% sodium citrate (lt. blue-top) tube Alternate: Serum				
Reject Criteria	Hemolysis, Lipemia				
Instructions	Plasma: Centrifuge light blue-top tube 15 minutes at approximately 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Serum: Centrifuge tube 15 minutes at approximately 1500 g within 60 minutes of collection.				
Transport Temperature	Room temperature				
Specimen Stability	Room temperature: 5 days Refrigerated: 14 days Frozen: 30 days				
Set-up/Analytic Time	Set up: 6 days a week a.m.; Report available: 4-5 days				
Reference Range	B2-Glycoprotein I (IgG) Ab ≤20 SGU				
Methodology	Immunoassay				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>3678</td> <td>B2-Glycoprotein I (IgG) Ab</td> </tr> </tbody> </table>	Result Code	Result Name	3678	B2-Glycoprotein I (IgG) Ab
Result Code	Result Name				
3678	B2-Glycoprotein I (IgG) Ab				

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Beta-2-Glycoprotein I (Beta-2-GPI) IgG, IgM & IgA Autoantibodies									
Clinical Significance	Beta-2-Glycoprotein 1, apolipoprotein H, is a cofactor in antiphospholipid antibody binding and is the critical antigen in the antiphospholipid antibody syndrome. Beta-2-Glycoprotein 1 Antibody is more specific than Cardiolipin Antibody that may express reactivity in patients with syphilis and other infectious diseases								
Effective Date	6/5/2012								
<i>Former Test Name</i>	<i>Beta-2-Glycoprotein I (Beta-2-GPI) IgG, IgM & IgA</i>								
<i>Former Test Code</i>	<i>1083</i>								
Test Code	30340								
Specimen Requirements	3 mL (1.5 mL) plasma collected in 3.2% sodium citrate (lt. blue-top) tube Alternate: Serum								
Reject Criteria	Hemolysis, Lipemia								
Instructions	Plasma: Centrifuge light blue-top tube 15 minutes at approximately 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Serum: Centrifuge tube 15 minutes at approximately 1500 g within 60 minutes of collection.								
Transport Temperature	Room temperature								
Specimen Stability	Room temperature: 5 days Refrigerated: 14 days Frozen: 30 days								
Set-up/Analytic Time	Set up: 6 days a week a.m.; Report available: 4-5 days								
Reference Range	<table border="1"> <tbody> <tr> <td>B2-Glycoprotein I (IgG) Ab</td> <td>≤20 SGU</td> </tr> <tr> <td>B2-Glycoprotein I (IgA) Ab</td> <td>≤20 SAU</td> </tr> <tr> <td>B2-Glycoprotein I (IgM) Ab</td> <td>≤20 SMU</td> </tr> </tbody> </table>	B2-Glycoprotein I (IgG) Ab	≤20 SGU	B2-Glycoprotein I (IgA) Ab	≤20 SAU	B2-Glycoprotein I (IgM) Ab	≤20 SMU		
B2-Glycoprotein I (IgG) Ab	≤20 SGU								
B2-Glycoprotein I (IgA) Ab	≤20 SAU								
B2-Glycoprotein I (IgM) Ab	≤20 SMU								
Methodology	Immunoassay								
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano								
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>3678</td> <td>B2-Glycoprotein I (IgG) Ab</td> </tr> <tr> <td>3749</td> <td>B2-Glycoprotein I (IgM) Ab</td> </tr> <tr> <td>3813</td> <td>B2-Glycoprotein I (IgA) Ab</td> </tr> </tbody> </table>	Result Code	Result Name	3678	B2-Glycoprotein I (IgG) Ab	3749	B2-Glycoprotein I (IgM) Ab	3813	B2-Glycoprotein I (IgA) Ab
Result Code	Result Name								
3678	B2-Glycoprotein I (IgG) Ab								
3749	B2-Glycoprotein I (IgM) Ab								
3813	B2-Glycoprotein I (IgA) Ab								
Additional Information	Factor VIII inhibitors may cause a false-positive lupus anticoagulation test. The temporary presence of antiphospholipid antibodies may accompany infections or certain drugs.								

Beta-2-Glycoprotein I (Beta-2-GPI) IgM Autoantibodies	
Clinical Significance	Beta-2-Glycoprotein 1, apolipoprotein H, is a cofactor in antiphospholipid antibody binding and is the critical antigen in the antiphospholipid antibody syndrome. Beta-2-Glycoprotein 1 Antibody is more specific than Cardiolipin Antibody that may express reactivity in patients with syphilis and other infectious diseases
Effective Date	6/5/2012
<i>Former Test Name</i>	<i>Beta-2-Glycoprotein I (Beta-2-GPI) IgM Autoabs</i>
<i>Former Test Code</i>	<i>1183</i>

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Test Code	36553					
Specimen Requirements	1 mL (0.5 mL) plasma collected in 3.2% sodium citrate (lt. blue-top) tube Alternate: Serum					
Reject Criteria	Hemolysis, Lipemia					
Instructions	Plasma: Centrifuge light blue-top tube 15 minutes at approximately 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Serum: Centrifuge tube 15 minutes at approximately 1500 g within 60 minutes of collection.					
Transport Temperature	Room temperature					
Specimen Stability	Room temperature: 5 days Refrigerated: 14 days Frozen: 30 days					
Set-up/Analytic Time	Set up: 6 days a week a.m.; Report available: 4-5 days					
Reference Range	<table border="1"> <tr> <td>B2-Glycoprotein I (IgM) Ab</td> <td>≤20 SMU</td> </tr> </table>		B2-Glycoprotein I (IgM) Ab	≤20 SMU		
B2-Glycoprotein I (IgM) Ab	≤20 SMU					
Methodology	Immunoassay					
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano					
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>3749</td> <td>B2-Glycoprotein I (IgM) Ab</td> </tr> </tbody> </table>		Result Code	Result Name	3749	B2-Glycoprotein I (IgM) Ab
Result Code	Result Name					
3749	B2-Glycoprotein I (IgM) Ab					

Cardiolipin Antibodies (IgG)												
Effective Date	6/5/2012											
Former Test Name	<i>Cardiolipin IgG Autoantibodies</i>											
Former Test Code	3372											
Test Code	4662											
Reference Range	<table border="1"> <thead> <tr> <th colspan="2">Cardiolipin IgG (GPL U/mL)</th> </tr> </thead> <tbody> <tr> <td><10</td> <td>Negative</td> </tr> <tr> <td>10-15</td> <td>Equivocal</td> </tr> <tr> <td>16-40</td> <td>Positive - Uncertain risk factor; may be reactive</td> </tr> <tr> <td>>40</td> <td>Positive - Risk factor for thrombosis and pregnancy loss</td> </tr> </tbody> </table>		Cardiolipin IgG (GPL U/mL)		<10	Negative	10-15	Equivocal	16-40	Positive - Uncertain risk factor; may be reactive	>40	Positive - Risk factor for thrombosis and pregnancy loss
Cardiolipin IgG (GPL U/mL)												
<10	Negative											
10-15	Equivocal											
16-40	Positive - Uncertain risk factor; may be reactive											
>40	Positive - Risk factor for thrombosis and pregnancy loss											
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano											
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>45000400</td> <td>Cardiolipin Ab (IgG)</td> </tr> </tbody> </table>		Result Code	Result Name	45000400	Cardiolipin Ab (IgG)						
Result Code	Result Name											
45000400	Cardiolipin Ab (IgG)											

Cardiolipin Antibodies (IgG, IgA, IgM)	
Effective Date	6/5/2012

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Former Test Name	Cardiolipin IgG, IgM & IgA Autoantibodies																													
Former Test Code	3371																													
Test Code	7352																													
Reference Range	<table border="1"> <thead> <tr> <th colspan="2">Cardiolipin IgG (GPL U/mL)</th> </tr> </thead> <tbody> <tr> <td><10</td> <td>Negative</td> </tr> <tr> <td>10-15</td> <td>Equivocal</td> </tr> <tr> <td>16-40</td> <td>Positive - Uncertain risk factor; may be reactive</td> </tr> <tr> <td>>40</td> <td>Positive - Risk factor for thrombosis and pregnancy loss</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Cardiolipin IgM (MPL U/mL)</th> </tr> </thead> <tbody> <tr> <td><10</td> <td>Negative</td> </tr> <tr> <td>10-15</td> <td>Equivocal</td> </tr> <tr> <td>16-40</td> <td>Positive - Uncertain risk factor; may be reactive</td> </tr> <tr> <td>>40</td> <td>Positive - Risk factor for thrombosis and pregnancy loss</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Cardiolipin (IgA) APL U/mL</th> </tr> </thead> <tbody> <tr> <td><10</td> <td>Negative</td> </tr> <tr> <td>10-15</td> <td>Equivocal</td> </tr> <tr> <td>>15</td> <td>Positive</td> </tr> </tbody> </table>		Cardiolipin IgG (GPL U/mL)		<10	Negative	10-15	Equivocal	16-40	Positive - Uncertain risk factor; may be reactive	>40	Positive - Risk factor for thrombosis and pregnancy loss	Cardiolipin IgM (MPL U/mL)		<10	Negative	10-15	Equivocal	16-40	Positive - Uncertain risk factor; may be reactive	>40	Positive - Risk factor for thrombosis and pregnancy loss	Cardiolipin (IgA) APL U/mL		<10	Negative	10-15	Equivocal	>15	Positive
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Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano																													
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>45000400</td> <td>Cardiolipin Ab (IgG)</td> </tr> <tr> <td>45000500</td> <td>Cardiolipin Ab (IgM)</td> </tr> <tr> <td>45000600</td> <td>Cardiolipin Ab (IgA)</td> </tr> </tbody> </table>		Result Code	Result Name	45000400	Cardiolipin Ab (IgG)	45000500	Cardiolipin Ab (IgM)	45000600	Cardiolipin Ab (IgA)																				
Result Code	Result Name																													
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45000500	Cardiolipin Ab (IgM)																													
45000600	Cardiolipin Ab (IgA)																													

Cardiolipin Antibodies (IgG, IgM)											
Effective Date	6/5/2012										
Former Test Code	3375										
Test Code	36333										
Reference Range	<table border="1"> <thead> <tr> <th colspan="2">Cardiolipin IgG (GPL U/mL)</th> </tr> </thead> <tbody> <tr> <td><10</td> <td>Negative</td> </tr> <tr> <td>10-15</td> <td>Equivocal</td> </tr> <tr> <td>16-40</td> <td>Positive - Uncertain risk factor; may be reactive</td> </tr> <tr> <td>>40</td> <td>Positive - Risk factor for thrombosis and pregnancy loss</td> </tr> </tbody> </table>	Cardiolipin IgG (GPL U/mL)		<10	Negative	10-15	Equivocal	16-40	Positive - Uncertain risk factor; may be reactive	>40	Positive - Risk factor for thrombosis and pregnancy loss
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May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	<table border="1"> <thead> <tr> <th colspan="2">Cardiolipin IgM (MPL U/mL)</th> </tr> </thead> <tbody> <tr> <td><10</td> <td>Negative</td> </tr> <tr> <td>10-15</td> <td>Equivocal</td> </tr> <tr> <td>16-40</td> <td>Positive - Uncertain risk factor; may be reactive</td> </tr> <tr> <td>>40</td> <td>Positive - Risk factor for thrombosis and pregnancy loss</td> </tr> </tbody> </table>	Cardiolipin IgM (MPL U/mL)		<10	Negative	10-15	Equivocal	16-40	Positive - Uncertain risk factor; may be reactive	>40	Positive - Risk factor for thrombosis and pregnancy loss
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Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano										
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>45000400</td> <td>Cardiolipin Ab (IgG)</td> </tr> <tr> <td>45000500</td> <td>Cardiolipin Ab (IgM)</td> </tr> </tbody> </table>	Result Code	Result Name	45000400	Cardiolipin Ab (IgG)	45000500	Cardiolipin Ab (IgM)				
Result Code	Result Name										
45000400	Cardiolipin Ab (IgG)										
45000500	Cardiolipin Ab (IgM)										

Cardiolipin Antibody (IgA)									
Effective Date	6/5/2012								
Former Test Name	Cardiolipin IgA Autoantibodies								
Former Test Code	3374								
Test Code	4661								
Reference Range	<table border="1"> <thead> <tr> <th colspan="2">Cardiolipin IgA (APL U/mL)</th> </tr> </thead> <tbody> <tr> <td><10</td> <td>Negative</td> </tr> <tr> <td>10-15</td> <td>Equivocal</td> </tr> <tr> <td>>15</td> <td>Positive</td> </tr> </tbody> </table>	Cardiolipin IgA (APL U/mL)		<10	Negative	10-15	Equivocal	>15	Positive
Cardiolipin IgA (APL U/mL)									
<10	Negative								
10-15	Equivocal								
>15	Positive								
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano								
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>45000600</td> <td>Cardiolipin Ab (IgA)</td> </tr> </tbody> </table>	Result Code	Result Name	45000600	Cardiolipin Ab (IgA)				
Result Code	Result Name								
45000600	Cardiolipin Ab (IgA)								

Cardiolipin Antibody (IgM)									
Effective Date	6/5/2012								
Former Test Name	Cardiolipin IgM Autoantibodies								
Former Test Code	3373								
Test Code	4663								
Reference Range	<table border="1"> <thead> <tr> <th colspan="2">Cardiolipin IgM (MPL U/mL)</th> </tr> </thead> <tbody> <tr> <td><10</td> <td>Negative</td> </tr> <tr> <td>10-15</td> <td>Equivocal</td> </tr> <tr> <td>16-40</td> <td>Positive - Uncertain risk factor; may be reactive</td> </tr> </tbody> </table>	Cardiolipin IgM (MPL U/mL)		<10	Negative	10-15	Equivocal	16-40	Positive - Uncertain risk factor; may be reactive
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May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	>40	Positive - Risk factor for thrombosis and pregnancy loss				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano					
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>45000500</td> <td>Cardiolipin Ab (IgM)</td> </tr> </tbody> </table>		Result Code	Result Name	45000500	Cardiolipin Ab (IgM)
Result Code	Result Name					
45000500	Cardiolipin Ab (IgM)					

DRVVT Screen w/Rfl DRVVT Confirm & DRVVT 1:1 Mix	
Clinical Significance	The dilute Russell Viper Venom time integrated test is a sensitive method for determining the presence of a Lupus Anticoagulant and/or presence of a phospholipid antibody. A positive test, when confirmed, makes the diagnosis of Lupus anticoagulant which may be associated with arterial or venous thrombosis.
Effective Date	6/5/2012
Former Test Code	15780
Test Code	15780
Specimen Requirements	2 mL (0.5) plasma collected in 3.2% sodium citrate (lt. blue-top) tube
Set-up/Analytic Time	Set up: 6 days a week; Report available: 2-3 days
Reference Range	dRVVT Screen: < OR = 45 seconds dRVVT Confirm: Negative dRVVT 1:1 Mix: Corrected dRVVT Mix Interpretation: See laboratory report
Methodology	Photo-optical Clot Detection, Calculation
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano

Factor VIII Activity, Clotting	
Clinical Significance	This test is useful to evaluate a prolonged aPTT. The most common form of hemophilia is caused by deficiency of factor VIII. Hemophilia A is an x-linked disorder affecting between 1 in 5,000 to 10,000 males.
Effective Date	6/5/2012
Former Test Name	Factor VIII Activity
Former Test Code	1947
Test Code	347
Specimen Requirements	1 mL (0.5) plasma collected in 3.2% sodium citrate (lt. blue-top) tube
Reject Criteria	Hemolysis, Thawed plasma, Received room temperature, Received refrigerated, Received thawed
Instructions	Platelet-poor plasma: Centrifuge light blue-top tube for 15 minutes at approximately 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcL). Freeze immediately and ship on dry ice. Note: Storage of whole blood at refrigerated temperatures prior to processing may lead to cryoprecipitate formation and falsely low Factor VIII and von Willebrand Factor studies.
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen -20° C: 14 days Frozen -70°C: 1 year
Set-up/Analytic Time	Set up: 6 days a week a.m.; Report available: 1 day
Reference Range	50-180 % normal

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Methodology	Photometric Clot Detection	
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano	
CPU Mappings	Result Code	Result Name
	30016700	Coag Factor VIII Activity

Fibrinogen Activity, Clauss		
Effective Date	6/5/2012	
<i>Former Test Code</i>	1426	
Test Code	461	
Specimen Requirements	1 mL (0.5) plasma collect in 3.2% sodium citrate (lt. blue-top) tube	
Reject Criteria	Gross hemolysis, Thawed plasma, Received room temperature, Received refrigerated	
Set-up/Analytic Time	Set up: Wed, Fri ; Report available: Next day	
Methodology	Photo-Optical Clot Detection	
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano	
CPU Mappings	Result Code	Result Name
	30032100	Fibrinogen Activity,Clauss

Heparin-Induced Platelet Antibody		
Clinical Significance	Helpful in the Diagnosis of heparin-induced thrombocytopenia. A positive result is indicative of the presence of heparin-induced antibodies; however, false positives may occur due to the presence of immune complexes or other immunoglobulin aggregates. A negative result suggests the absence of heparin-induced antibodies; low titer, low avidity antibodies may not be detected. Other clinical and laboratory findings should be used in conjunction with this test result prior to diagnosing heparin-induced thrombocytopenia.	
Effective Date	6/5/2012	
<i>Former Test Name</i>	Heparin-PF4 Antibodies (HIT)	
<i>Former Test Code</i>	5945	
Test Code	414	
Specimen Stability	Room temperature: Unacceptable Refrigerated: 48 hours Frozen: 6 months	
Set-up/Analytic Time	Set up: Daily; Report available: Next day	
Reference Range	Negative Patient O.D. http://education.questdiagnostics.com/faq/HIT-PF4-SRA	
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano	
CPU Mappings	Result Code	Result Name
	30070810	Heparin-Induced PLT AB
	30070820	Patient O.D.

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

HLA-B27 Antigen					
Clinical Significance	HLA-B27 is found in 90% of patients with ankylosing spondylitis and 80% in Reiter's disease. Ankylosing spondylitis affects 1 in 1000 Caucasians. Ankylosing spondylitis is 10 times more common among individuals with HLA-B27 compared to individuals without this antigen.				
Effective Date	6/5/2012				
Former Test Name	HLA: B27 Typing				
Former Test Code	1350				
Test Code	528				
Reject Criteria	Received frozen				
Specimen Stability	Whole blood Room temperature: 5 Days Refrigerated: 5 Days Frozen: Unacceptable				
Always Message	HLA-B27 antigen is either present or absent (HLA- B27 positive sample or HLA-B27 negative sample). There are some disease states associated with positive HLA-B27 results. However, a HLA-B27 positive sample does not indicate the presence of disease. The following chart identifies the probability of HLA-B27 positive results, separated by race and disease. Group Positive(%) Caucasians Healthy controls 5-14 Ankylosing Spondylitis 90-100 Endemic Reiter's Syndrome 90-100 Psoriatic Arthropathy - Without sacroiliitis 18-22 - With sacroiliitis 50-60 Juvenile Chronic Polyarthropathy - Without sacroiliitis 15-25 - With sacroiliitis 50-70 Inflammatory Bowel Disease: - Without sacroiliitis 6 - With sacroiliitis 50-70 HLA Healthy Controls 1-4 Ankylosis Spondyliatis 50-60 Reiter's Syndrome 50-60 Japanese Healthy Controls <1 Ankylosis Spondyliatis 60				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>40016000</td> <td>HLA-B27 Antigen</td> </tr> </tbody> </table>	Result Code	Result Name	40016000	HLA-B27 Antigen
Result Code	Result Name				
40016000	HLA-B27 Antigen				

Lupus Anticoagulant Evaluation with Reflex																	
Effective Date	6/5/2012																
Former Test Name	Lupus Anticoagulant: Screen 1																
Former Test Code	5963																
Test Code	9762																
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano																
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>30035900</td> <td>Lupus Anticoagulant</td> </tr> <tr> <td>30035205</td> <td>PTT-LA Screen</td> </tr> <tr> <td>30035850</td> <td>Hexagonal Phase Confirm</td> </tr> <tr> <td>30035405</td> <td>dRVVT Screen</td> </tr> <tr> <td>30035350</td> <td>dRVVT Confirm</td> </tr> <tr> <td>30035360</td> <td>dRVVT 1:1 Mix</td> </tr> <tr> <td>30035380</td> <td>dRVVT Mix Interpretation</td> </tr> </tbody> </table>	Result Code	Result Name	30035900	Lupus Anticoagulant	30035205	PTT-LA Screen	30035850	Hexagonal Phase Confirm	30035405	dRVVT Screen	30035350	dRVVT Confirm	30035360	dRVVT 1:1 Mix	30035380	dRVVT Mix Interpretation
Result Code	Result Name																
30035900	Lupus Anticoagulant																
30035205	PTT-LA Screen																
30035850	Hexagonal Phase Confirm																
30035405	dRVVT Screen																
30035350	dRVVT Confirm																
30035360	dRVVT 1:1 Mix																
30035380	dRVVT Mix Interpretation																

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	45000600	Cardiolipin Ab (IgA)
	45000400	Cardiolipin Ab (IgG)
	45000500	Cardiolipin Ab (IgM)
Additional Information	See individual tests for specimen requirements and reference ranges.	

Lymphocyte Subset Panel 1	
Effective Date	6/5/2012
<i>Former Test Code</i>	71978
Test Code	71978
Reference Range	See Laboratory Report
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano

Lymphocyte Subset Panel 2	
Clinical Significance	Immunophenotypic analysis may assist in evaluating cellular immunocompetency in suspected cases of primary and secondary immunodeficiency states.
Effective Date	6/5/2012
<i>Former Test Code</i>	36420
Test Code	36420
Reject Criteria	Received frozen
Instructions	Do not freeze. Do not transfer whole blood to M4. Submit the preferred EDTA tubes at room temperature. Volumes less than 1 mL should be submitted in a Pediatric EDTA tube.
Set-up/Analytic Time	Set up: Mon-Sun. ; Report available: Next day
Reference Range	See Laboratory Report
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano

Lymphocyte Subset Panel 3	
Effective Date	6/5/2012
<i>Former Test Code</i>	71958
Test Code	71958
Reference Range	See Laboratory Report
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano

Lymphocyte Subset Panel 4	
Effective Date	6/5/2012
<i>Former Test Code</i>	79248
Test Code	79248
Reference Range	See Laboratory Report
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Lymphocyte Subset Panel 5	
Effective Date	6/5/2012
Former Test Code	83608
Test Code	83608
Reference Range	See Laboratory Report
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano

Mixing Study															
Effective Date	6/5/2012														
Former Test Name	PT and PTT-LA Mixing Studies														
Former Test Code	3890														
Test Code	8922														
Specimen Requirements	3 mL (1.5) plasma collected in 3.2% sodium citrate (lt. blue-top) tube														
Reject Criteria	Thawed plasma, Clotted sample, Serum, 3.8% sodium citrate														
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 7 days -70°: 90 days														
Set-up/Analytic Time	Set up: 5 days a week; Report available: 2 days														
Reference Range	<table border="1"> <tbody> <tr> <td>Interpretation:</td> <td>See laboratory report</td> </tr> <tr> <td>Prothrombin Time:</td> <td>9.0-11.5 sec</td> </tr> <tr> <td>PT Mix:</td> <td><OR=11.5 sec</td> </tr> <tr> <td>PTT-LA:</td> <td><OR=40 sec</td> </tr> <tr> <td>PTT-LA Mix:</td> <td>See laboratory report</td> </tr> <tr> <td>Incubated PTT-LA Mix:</td> <td>See laboratory report</td> </tr> </tbody> </table>	Interpretation:	See laboratory report	Prothrombin Time:	9.0-11.5 sec	PT Mix:	<OR=11.5 sec	PTT-LA:	<OR=40 sec	PTT-LA Mix:	See laboratory report	Incubated PTT-LA Mix:	See laboratory report		
Interpretation:	See laboratory report														
Prothrombin Time:	9.0-11.5 sec														
PT Mix:	<OR=11.5 sec														
PTT-LA:	<OR=40 sec														
PTT-LA Mix:	See laboratory report														
Incubated PTT-LA Mix:	See laboratory report														
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano														
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>26113</td> <td>Interpretation</td> </tr> <tr> <td>26103</td> <td>Prothrombin Time</td> </tr> <tr> <td>26104</td> <td>PT Mix</td> </tr> <tr> <td>26106</td> <td>PTT-LA</td> </tr> <tr> <td>26107</td> <td>PTT-LA Mix</td> </tr> <tr> <td>26109</td> <td>Incubated PTT-LA Mix</td> </tr> </tbody> </table>	Result Code	Result Name	26113	Interpretation	26103	Prothrombin Time	26104	PT Mix	26106	PTT-LA	26107	PTT-LA Mix	26109	Incubated PTT-LA Mix
Result Code	Result Name														
26113	Interpretation														
26103	Prothrombin Time														
26104	PT Mix														
26106	PTT-LA														
26107	PTT-LA Mix														
26109	Incubated PTT-LA Mix														

Partial Thromboplastin Time, Activated (aPTT)	
Clinical Significance	A screening test for deficiencies of plasma coagulation factors other than Factor VII and XIII. The test is also used to

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	monitor patients on heparin therapy.				
Effective Date	6/5/2012				
<i>Former Test Name</i>	<i>Activated Partial Thromboplastin Time (APTT)</i>				
<i>Former Test Code</i>	<i>3895</i>				
Test Code	763				
Specimen Requirements	1 mL (0.3) plasma collected in 3.2% sodium citrate (lt. blue-top) tube				
Reject Criteria	Hemolysis, Thawed plasma, Received room temperature, Received refrigerated, Clotted, Improper blood to citrate ratio, High hematocrit				
Instructions	Do not thaw. Hemolyzed specimens are not acceptable. Refer to Quest Diagnostics Nichols Institute Directory of Services under Specimen Collection section. Coagulation Testing for further information on specimen processing.				
Specimen Stability	Room temperature: 2 hours Refrigerated: 4 hours Frozen -20° C: 14 days Frozen -70° C: 6 months				
Always Message	The therapeutic range for unfractionated heparin therapy is 1.5-2.5 times the mean of the reference interval. In patients in whom there is an apparent heparin resistance, a heparin level by an anti-Xa method is available.				
Methodology	Photo-Optical Clot Detection				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>30051900</td> <td>Thromboplastin Time</td> </tr> </tbody> </table>	Result Code	Result Name	30051900	Thromboplastin Time
Result Code	Result Name				
30051900	Thromboplastin Time				

Protein C & Protein S, Functional							
Clinical Significance	This panel screens for two common deficiencies associated with thrombotic disease. If a deficiency is identified, additional testing is recommended for classification.						
Effective Date	6/5/2012						
<i>Former Test Name</i>	<i>Protein C & S Activity</i>						
<i>Former Test Code</i>	<i>5992</i>						
Test Code	39457						
Specimen Requirements	1 mL plasma collected in 3.2% sodium citrate (light blue-top) tube						
Reject Criteria	Thawed plasma						
Instructions	Draw blood in (light blue-top) tube containing 3.2% sodium citrate, mix gently by inverting 3-4 times. Centrifuge 15 minutes at 1500 g within 1 hour of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial(s). Freeze immediately and transport on dry ice.						
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen -20° C: 14 days Frozen -70° C: 1 year						
Reference Range	<table border="1"> <tbody> <tr> <td>Protein C Activity</td> <td>70-180 % normal</td> </tr> <tr> <td>Protein S Activity</td> <td></td> </tr> <tr> <td>Males</td> <td>70-150 % normal</td> </tr> </tbody> </table>	Protein C Activity	70-180 % normal	Protein S Activity		Males	70-150 % normal
Protein C Activity	70-180 % normal						
Protein S Activity							
Males	70-150 % normal						

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	Females	60-140 % normal						
Always Message	<p>Decreased levels of protein C activity may be found in hereditary deficiency, treatment with oral anticoagulants, liver disease, D.I.C. and post surgery. An elevated protein C activity is not clinically significant. Only deficiencies are associated with an increased thrombotic risk.</p> <p>Decreased levels of Protein S activity may be found in patients with hereditary deficiency, warfarin therapy, vitamin k deficiency, liver disease, DIC, or recent thrombosis as well as after surgery. In addition, it may be physiologic in pregnancy. An elevated Protein S activity is not clinically significant. Only deficiencies are associated with an increased thrombotic risk.</p>							
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano							
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>30021100</td> <td>Protein C Activity</td> </tr> <tr> <td>30021400</td> <td>Protein S Activity</td> </tr> </tbody> </table>		Result Code	Result Name	30021100	Protein C Activity	30021400	Protein S Activity
Result Code	Result Name							
30021100	Protein C Activity							
30021400	Protein S Activity							

Protein C Activity					
Clinical Significance	The Protein C Activity done by a RVV type matrix coagulation assay is more sensitive to subclinical vitamin K deficiency, hepatic failure, coumadin and DIC. Some genetic mutations of protein C will be missed by the chromogenic assay which will be satisfactorily detected with the protein C clottable assay system. Alternatively, chromogenic assay may be more reliable to measure half-life and recovery of protein C concentrates.				
Effective Date	6/5/2012				
Former Test Code	3836				
Test Code	1777X				
Specimen Requirements	1 mL (0.5) plasma collected in 3.2% sodium citrate (lt. blue-top) tube				
Reject Criteria	Hemolysis, Thawed plasma, Received room temperature, Received refrigerated, Received thawed				
Instructions	Draw blood in a light blue-top tube containing 3.2% sodium citrate, mix gently by inverting 3-4 times. Centrifuge 15 minutes at 1500 g within one hour of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial(s). Freeze immediately and transport on dry ice.				
Set-up/Analytic Time	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 14 days -70°: 1 year				
Reference Range	70-180 % normal				
Always Message	Decreased levels of protein C activity may be found in hereditary deficiency, treatment with oral anticoagulants, liver disease, D.I.C. and post surgery. An elevated protein C activity is not clinically significant. Only deficiencies are associated with an increased thrombotic risk.				
Methodology	Clotting Assay				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>30021100</td> <td>Protein C Activity</td> </tr> </tbody> </table>	Result Code	Result Name	30021100	Protein C Activity
Result Code	Result Name				
30021100	Protein C Activity				

Protein C Activity and Antigen	
Clinical Significance	Comprehensive test assesses the total level of protein and its functional activity in determining Protein C deficiency,

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	which is strongly prothrombotic, and may require longterm anticoagulation therapy. In the presence of low Protein C Activity, Protein C Antigen helps to confirm and to classify Protein C Deficiency as Type I or Type II. Protein C is a highly thrombophilic protein.						
Effective Date	6/5/2012						
<i>Former Test Name</i>	<i>Protein C Evaluation 1</i>						
<i>Former Test Code</i>	5933						
Test Code	8757						
Specimen Requirements	1 mL (0.5) plasma collected in 3.2% sodium citrate (lt. blue-top) tube [x2]						
Reject Criteria	Thawed plasma						
Instructions	Draw blood in a light blue-top tube containing 3.2% sodium citrate, mix gently by inverting 3-4 times. Centrifuge 15 minutes at 1500 g within one hour of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial(s). Freeze immediately and transport on dry ice.						
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 14 days -70°: 1 year						
Reference Range	<table border="1"> <tr> <td>Protein C Activity</td> <td>70-180 % normal</td> </tr> <tr> <td>Protein C Antigen</td> <td>70-140 % normal</td> </tr> </table>	Protein C Activity	70-180 % normal	Protein C Antigen	70-140 % normal		
Protein C Activity	70-180 % normal						
Protein C Antigen	70-140 % normal						
Always Message	Decreased levels of protein C activity may be found in hereditary deficiency, treatment with oral anticoagulants, liver disease, D.I.C. and post surgery. An elevated protein C activity is not clinically significant. Only deficiencies are associated with an increased thrombotic risk. Decreased levels of Protein C antigen may be found in congenital deficiency, treatment with oral anticoagulants, liver disease, D.I.C. and post surgery.						
Methodology	Clotting Assay , Immunoassay						
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano						
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>30021100</td> <td>Protein C Activity</td> </tr> <tr> <td>30021300</td> <td>Protein C Antigen</td> </tr> </tbody> </table>	Result Code	Result Name	30021100	Protein C Activity	30021300	Protein C Antigen
Result Code	Result Name						
30021100	Protein C Activity						
30021300	Protein C Antigen						

Protein C Antigen	
Clinical Significance	Protein C Antigen levels may be decreased with congenital deficiency, treatment with oral anticoagulants, liver disease, DIC, and post-surgery.
Effective Date	6/5/2012
<i>Former Test Code</i>	5932
Test Code	4948
Reject Criteria	Hemolysis, Thawed plasma, Received room temperature, Received refrigerated
Instructions	Draw blood in a light blue-top tube containing 3.2% sodium citrate, mix gently by inverting 3-4 times. Centrifuge 15 minutes at 1500 g within one hour of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial(s). Freeze immediately and transport on dry ice.

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Reference Range	70-140 % normal					
Always Message	Decreased levels of Protein C antigen may be found in congenital deficiency, treatment with oral anticoagulants, liver disease, D.I.C. and post surgery.					
Methodology	Immunoassay					
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano					
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>30021300</td> <td>Protein C Antigen</td> </tr> </tbody> </table>		Result Code	Result Name	30021300	Protein C Antigen
Result Code	Result Name					
30021300	Protein C Antigen					

Protein S Activity					
Clinical Significance	Protein S Activity is used to diagnose acquired and hereditary deficiencies of Protein S. Protein S deficiency is associated with increased risk of thrombosis.				
Effective Date	6/5/2012				
Former Test Code	3837				
Test Code	1779X				
Specimen Requirements	1 mL (0.5) plasma collected in 3.2% sodium citrate (lt. blue-top) tube				
Reject Criteria	Hemolysis, Thawed plasma, Received room temperature, Received refrigerated, Received thawed				
Instructions	Draw blood in a light blue-top tube containing 3.2% sodium citrate, mix gently by inverting 3-4 times. Centrifuge 15 minutes at 1500 g within one hour of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial(s). Freeze immediately and transport on dry ice.				
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 30 days -70°: 1 year				
Set-up/Analytic Time	Set up: 6 days a week p.m.; Report available: 3-4 days				
Reference Range	<table border="1"> <tbody> <tr> <td>Males:</td> <td>70-150 % normal</td> </tr> <tr> <td>Females:</td> <td>60-140 % normal</td> </tr> </tbody> </table>	Males:	70-150 % normal	Females:	60-140 % normal
Males:	70-150 % normal				
Females:	60-140 % normal				
Always Message	Decreased levels of Protein S activity may be found in patients with hereditary deficiency, warfarin therapy, vitamin k deficiency, liver disease, DIC, or recent thrombosis as well as after surgery. In addition, it may be physiologic in pregnancy. An elevated Protein S activity is not clinically significant. Only deficiencies are associated with an increased thrombotic risk.				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>30021400</td> <td>Protein S Activity</td> </tr> </tbody> </table>	Result Code	Result Name	30021400	Protein S Activity
Result Code	Result Name				
30021400	Protein S Activity				

Protein S Activity and Antigen, Total	
Effective Date	6/5/2012
Former Test Name	Protein S Evaluation
Former Test Code	5938

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Test Code	7039									
Specimen Requirements	2 mL (1.0) plasma collected in 3.2% sodium citrate (lt. blue-top) tube									
Reject Criteria	Thawed plasma									
Instructions	Draw blood in a light blue-top tube containing 3.2% sodium citrate, mix gently by inverting 3-4 times. Centrifuge 15 minutes at 1500 g within one hour of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial(s). Freeze immediately and transport on dry ice.									
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 30 Days -70 Degrees: 1 Year									
Reference Range	<table border="1"> <tr> <td>Protein S, Total Antigen:</td> <td>70-140 %normal</td> </tr> <tr> <td>Protein S Activity:</td> <td></td> </tr> <tr> <td>Male:</td> <td>70-150 %normal</td> </tr> <tr> <td>Female:</td> <td>60-140 %normal</td> </tr> </table>		Protein S, Total Antigen:	70-140 %normal	Protein S Activity:		Male:	70-150 %normal	Female:	60-140 %normal
Protein S, Total Antigen:	70-140 %normal									
Protein S Activity:										
Male:	70-150 %normal									
Female:	60-140 %normal									
Always Message	Decreased levels of Protein S activity may be found in patients with hereditary deficiency, warfarin therapy, vitamin k deficiency, liver disease, DIC, or recent thrombosis as well as after surgery. In addition, it may be physiologic in pregnancy. An elevated Protein S activity is not clinically significant. Only deficiencies are associated with an increased thrombotic risk.									
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano									
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>30021600</td> <td>Protein S, Total Antigen</td> </tr> <tr> <td>30021400</td> <td>Protein S Activity</td> </tr> </tbody> </table>		Result Code	Result Name	30021600	Protein S, Total Antigen	30021400	Protein S Activity		
Result Code	Result Name									
30021600	Protein S, Total Antigen									
30021400	Protein S Activity									

Protein S Antigen, Free	
Clinical Significance	STA-LIA test Free Protein S is intended for quantitative determination of free Protein S using an Immuno-turbidimetric method.
Effective Date	6/5/2012
Former Test Code	5935
Test Code	10170
Reject Criteria	Thawed plasma
Instructions	Draw blood in a light blue-top tube containing 3.2% sodium citrate, mix gently by inverting 3-4 times. Centrifuge 15 minutes at 1500 g within one hour of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial(s). Freeze immediately and transport on dry ice.
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen -20° C: 30 days Frozen -70° C: 1 year
Set-up/Analytic Time	Set up: 2 days a week p.m.; Report available: 4-5 days
Units Of Measure	% Normal
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

CPU Mappings	Result Code	Result Name
	45995187	Protein S Antigen,Free

Protein S Antigen, Total		
Clinical Significance	Antigen testing is appropriate when a functional activity deficiency is present. If low, Total Protein S Antigen assesses the Protein S deficiency as Type I or III (IIa).	
Effective Date	6/5/2012	
<i>Former Test Code</i>	5937	
Test Code	5165	
Reject Criteria	Hemolysis, Thawed plasma, Received room temperature, Received refrigerated, Received thawed	
Instructions	Draw blood in a light blue-top tube containing 3.2% sodium citrate, mix gently by inverting 3-4 times. Centrifuge 15 minutes at 1500 g within one hour of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial(s). Freeze immediately and transport on dry ice.	
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen -20° C: 30 days Frozen -70° C: 1 year	
Set-up/Analytic Time	Set up: 3 days a week p.m.; Report available: 2 days	
Units Of Measure	% Normal	
Performing Site	Quest Diagnostics Nichols Institute, Valencia	
CPU Mappings	Result Code	Result Name
	30021600	Protein S, Total Antigen

Prothrombin Time with INR	
Clinical Significance	Screening test for abnormalities of coagulation factors that are involved in the extrinsic pathway. Also used to monitor effects of Warfarin Therapy and to study patients with hereditary and acquired clotting disorders.
Effective Date	6/5/2012
<i>Former Test Name</i>	<i>Prothrombin Time</i>
<i>Former Test Code</i>	3892
Test Code	8847
Specimen Requirements	1 mL plasma (0.5) collected in 3.2% sodium citrate (lt. blue-top) tube
Reject Criteria	Hemolysis, Lipemia, Thawed plasma, Improper blood to citrate ratio, High hematocrit, Improper blood collection
Instructions	Platelet Poor Plasma: Centrifuge light blue-top tube 15 minutes at approx. 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcl). Freeze immediately and ship on dry ice.
Specimen Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 14 days -70°: 6 months

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Set-up/Analytic Time	Set up: 5 days a week p.m.; Report available: 1 day											
Reference Range	<table border="1"> <tr> <td>INR:</td> <td></td> </tr> <tr> <td>Reference range</td> <td>0.9-1.1</td> </tr> <tr> <td>Moderate - intensity Warfarin therapy</td> <td>2.0-3.0</td> </tr> <tr> <td>Higher - intensity Warfarin therapy</td> <td>3.0-4.0</td> </tr> <tr> <td>Prothrombin Time:</td> <td>9.0-11.5 sec</td> </tr> </table>		INR:		Reference range	0.9-1.1	Moderate - intensity Warfarin therapy	2.0-3.0	Higher - intensity Warfarin therapy	3.0-4.0	Prothrombin Time:	9.0-11.5 sec
INR:												
Reference range	0.9-1.1											
Moderate - intensity Warfarin therapy	2.0-3.0											
Higher - intensity Warfarin therapy	3.0-4.0											
Prothrombin Time:	9.0-11.5 sec											
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano											
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>30040200</td> <td>INR</td> </tr> <tr> <td>30039900</td> <td>Prothrombin Time</td> </tr> </tbody> </table>		Result Code	Result Name	30040200	INR	30039900	Prothrombin Time				
Result Code	Result Name											
30040200	INR											
30039900	Prothrombin Time											

Ristocetin Cofactor					
Clinical Significance	von Willebrand Disease is the most common hereditary bleeding disorder. von Willebrand Factor is necessary for platelet adhesion to injured endothelium. Ristocetin Cofactor is useful in assessing binding of von Willebrand Factor to platelet factor GP1b. When combined with other tests, results are useful in categorizing the type of von Willebrand Disease.				
Effective Date	6/5/2012				
Former Test Name	<i>Ristocetin Cofactor Function</i>				
Former Test Code	<i>1871</i>				
Test Code	4459				
Reject Criteria	Hemolysis, Lipemia, Thawed plasma, Received room temperature, Received refrigerated				
Instructions	Platelet-poor plasma: Centrifuge light blue-top tube for 15 minutes at approximately 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcL). Freeze immediately and ship on dry ice. Note: Storage of whole blood at refrigerated temperatures prior to processing may lead to cryoprecipitate formation and falsely low Factor VIII and von Willebrand Factor studies.				
Specimen Stability	Room temperature: 6 hours Refrigerated: Unacceptable Frozen: 30 days				
Set-up/Analytic Time	Set up: 5 days a week a.m.; Report available: 1-3 days				
Reference Range	42-200 % normal				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>3790</td> <td>vWf: Ristocetin Co-Factor</td> </tr> </tbody> </table>	Result Code	Result Name	3790	vWf: Ristocetin Co-Factor
Result Code	Result Name				
3790	vWf: Ristocetin Co-Factor				

T and B Cells, Total	
Clinical Significance	T cell deficiency is frequently associated with chronic, recurrent mucocutaneous candidiasis. B cell deficiency is frequently associated with recurrent, complicated or severe pyrogenic infections. Deficiencies of T and B cells are

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

	observed in many medical conditions. Often, more specific evaluations are required after a deficiency is identified.																
Effective Date	6/5/2012																
<i>Former Test Name</i>	<i>Lymphocyte Enumeration, T & B Cell</i>																
<i>Former Test Code</i>	1658																
Test Code	39588																
Specimen Requirements	5 mL (0.5) whole blood collected in an EDTA (lavender-top) tube																
Reject Criteria	Received frozen																
Transport Temperature	Do not freeze. Do not transfer whole blood to M4. Submit the preferred EDTA tubes at room temperature. Volumes less than 1 mL should be submitted in a Pediatric EDTA tube.																
Set-up/Analytic Time	Set up: Mon-Sun; Report available: Next day																
Reference Range	See Laboratory Report																
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano																
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td colspan="2">WBC/LYMPHS</td> </tr> <tr> <td>10617</td> <td>Lymphocytes, Absolute</td> </tr> <tr> <td colspan="2">PHENOTYPING</td> </tr> <tr> <td>10629</td> <td>CD19, Absolute</td> </tr> <tr> <td>10630</td> <td>CD19 Percentage</td> </tr> <tr> <td>10619</td> <td>CD3, Absolute</td> </tr> <tr> <td>10620</td> <td>CD3 Percentage</td> </tr> </tbody> </table>	Result Code	Result Name	WBC/LYMPHS		10617	Lymphocytes, Absolute	PHENOTYPING		10629	CD19, Absolute	10630	CD19 Percentage	10619	CD3, Absolute	10620	CD3 Percentage
Result Code	Result Name																
WBC/LYMPHS																	
10617	Lymphocytes, Absolute																
PHENOTYPING																	
10629	CD19, Absolute																
10630	CD19 Percentage																
10619	CD3, Absolute																
10620	CD3 Percentage																

Thrombin Clotting Time					
Effective Date	6/5/2012				
<i>Former Test Name</i>	<i>Thrombin Time</i>				
<i>Former Test Code</i>	4210				
Test Code	883				
Instructions	Collect plasma by carefully mixing 1 part 3.2% sodium citrate with 9 parts venous blood. Gently mix but do not shake. Centrifuge immediately at 1500g for 10 min., remove plasma using plastic pipette and place into plastic tube, cap and promptly freeze. (Refer to Quest Diagnostics Nichols Institute Reference Manual for more complete instructions.)				
Always Message	The thrombin clotting time assay at Quest Diagnostics Nichols Institute was validated using adult plasma samples to establish the reference range; due to biochemical differences between neonatal fibrinogen and adult fibrinogen, evaluation of samples from neonatal patients is not recommended using this assay.				
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano				
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>6704</td> <td>Thrombin Clotting Time</td> </tr> </tbody> </table>	Result Code	Result Name	6704	Thrombin Clotting Time
Result Code	Result Name				
6704	Thrombin Clotting Time				

von Willebrand Factor Antigen

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Clinical Significance	von Willebrand Disease is the most common hereditary bleeding disorder; it may also be acquired. von Willebrand Factor is necessary for platelet adhesion to injured endothelium. von Willebrand Factor Antigen is useful in assessing the quantity of von Willebrand Factor. When combined with other tests, results are useful in categorizing the type of von Willebrand Disease.					
Effective Date	6/5/2012					
Former Test Code	1907					
Test Code	4919X					
Instructions	Platelet-poor plasma: Centrifuge light blue-top tube for 15 minutes at approximately 1500 g within 60 minutes of collection. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet buffy layer and place into a plastic vial. Centrifuge a second time and transfer platelet-poor plasma into a new plastic vial. Plasma must be free of platelets (<10,000/mcL). Freeze immediately and ship on dry ice. Note: Storage of whole blood at refrigerated temperatures prior to processing may lead to cryoprecipitate formation and falsely low Factor VIII and von Willebrand Factor studies.					
Specimen Stability	Room temperature: 8 Hours Refrigerated: 24 Hours Frozen: 30 Days					
Set-up/Analytic Time	Sets up Sun, Mon, Tue, Wed, Thu; Reports in 1 to 3 days.					
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano					
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>85991141</td> <td>vWF Ag</td> </tr> </tbody> </table>		Result Code	Result Name	85991141	vWF Ag
Result Code	Result Name					
85991141	vWF Ag					

von Willebrand Panel												
Effective Date	6/5/2012											
Former Test Name	von Willebrand Profile											
Former Test Code	5961											
Test Code	9761											
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano											
CPU Mappings	<table border="1"> <thead> <tr> <th>Result Code</th> <th>Result Name</th> </tr> </thead> <tbody> <tr> <td>30016700</td> <td>Factor VIII Activity</td> </tr> <tr> <td>85991141</td> <td>vWF Ag</td> </tr> <tr> <td>3790</td> <td>Ristocetin Co-Factor</td> </tr> <tr> <td>250</td> <td>Thromboplastin Time</td> </tr> </tbody> </table>		Result Code	Result Name	30016700	Factor VIII Activity	85991141	vWF Ag	3790	Ristocetin Co-Factor	250	Thromboplastin Time
Result Code	Result Name											
30016700	Factor VIII Activity											
85991141	vWF Ag											
3790	Ristocetin Co-Factor											
250	Thromboplastin Time											
Additional Information	Please see individual tests for specimen requirements and reference ranges.											

Discontinued Tests

BAALC (Brain and Acute Leukemia, Cytoplasmic) UltraQuant®	
Message	Test discontinued due to low volume. There is no replacement available.
Effective Date	6/5/2012

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Test Code	5310
Cardiovascular Thrombotic Risk AssessR™	
Message	Test discontinued due to low volume. Panel components may be ordered individually.
Effective Date	6/5/2012
Test Code	5991
CD16/56 Surface Marker	
Message	Suggested replacement test code 37400 Cell Surface Marker, Individual
Effective Date	6/5/2012
Test Code	1687
CD19 Surface Marker	
Message	Suggested replacement test code 37400 Cell Surface Marker, Individual
Effective Date	6/5/2012
Test Code	1688
CD3 Surface Marker	
Message	Suggested replacement test code 37400 Cell Surface Marker, Individual
Effective Date	6/5/2012
Test Code	1683
CD4 Surface Marker	
Message	Suggested replacement test code 37400 Cell Surface Marker, Individual
Effective Date	6/5/2012
Test Code	1684
CD8 Surface Marker	
Message	Suggested replacement test code 37400 Cell Surface Marker, Individual
Effective Date	6/5/2012
Test Code	1685
Factor VIII Inhibitor	
Message	Suggested replacement test code 40083 Factor VIII Inhibitor Panel
Effective Date	6/5/2012
Test Code	1967
Hereditary Thrombosis Screen A, No Heparin or Coumadin	
Message	Test discontinued due to low volume. Panel components may be ordered individually.
Effective Date	6/5/2012

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Test Code	5965					
HIV-1 RNA Quantitative, bDNA & CD4 Cell Count						
Message	Test discontinued due to low volume. There is no replacement available.					
Effective Date	6/5/2012					
Test Code	9872					
Tests Affected	<table border="1"> <thead> <tr> <th>Test Codes:</th> <th>Name:</th> </tr> </thead> <tbody> <tr> <td>9872SR</td> <td>HIV-1 RNA Quantitative, bDNA & CD4 Cell Count w/Serial Report</td> </tr> </tbody> </table>		Test Codes:	Name:	9872SR	HIV-1 RNA Quantitative, bDNA & CD4 Cell Count w/Serial Report
Test Codes:	Name:					
9872SR	HIV-1 RNA Quantitative, bDNA & CD4 Cell Count w/Serial Report					
Lupus Anticoagulant AssessR™						
Message	Suggested replacement test code 7079 Lupus Anticoagulant Evaluation with Reflex					
Effective Date	6/5/2012					
Test Code	1910					
Lupus Anticoagulant: Hexagonal Phase						
Message	Suggested replacement test code 36573 Hexagonal Phase Neutralization					
Effective Date	6/5/2012					
Test Code	1915					
Lupus Anticoagulant: Screen 2						
Message	Test discontinued due to low volume. Panel components may be ordered individually.					
Effective Date	6/5/2012					
Test Code	5976					
Lupus Anticoagulant: Screen 3						
Message	Suggested replacement test code 7079 Lupus Anticoagulant Evaluation with Reflex					
Effective Date	6/5/2012					
Test Code	5962					
Natural Killer Cell Quantitation						
Message	Suggested replacement test code 37088 Natural Killer Cells					
Effective Date	6/5/2012					
Test Code	1872					
Platelet Associated Glycoprotein (Direct) Ab						
Message	Suggested replacement test code 10678 Platelet Glycoprotein Antibody					
Effective Date	6/5/2012					
Test Code	6104					

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Platelet Glycoprotein (Direct & Indirect) Abs	
Message	Suggested replacement test codes 5341 Platelet Antibody, Indirect (IgG) and 10678 Platelet Glycoprotein Antibody
Effective Date	6/5/2012
Test Code	6100

Platelet Glycoprotein (Indirect) Autoabs	
Message	Suggested replacement test code 5341 Platelet Antibody, Indirect (IgG)
Effective Date	6/5/2012
Test Code	6102

Platelet Glycoprotein Ia/IIa Total Autoantibodies	
Message	Suggested replacement test code 5341 Platelet Antibody, Indirect (IgG)
Effective Date	6/5/2012
Test Code	5957

Platelet Glycoprotein Ib/Ix Total Autoantibodies	
Message	Suggested replacement test code 5341 Platelet Antibody, Indirect (IgG)
Effective Date	6/5/2012
Test Code	5955

Platelet Glycoprotein IIb/IIIa Total Autoantibodies	
Message	Suggested replacement test code 5341 Platelet Antibody, Indirect (IgG)
Effective Date	6/5/2012
Test Code	5956

Thrombotic Risk AssessR™	
Message	Test discontinued due to low volume. Panel components may be ordered individually.
Effective Date	6/5/2012
Test Code	5990

Thrombotic Risk Evaluation 1	
Message	Suggested replacement test code 11051 Thrombosis Panel
Effective Date	6/5/2012
Test Code	5972

Thrombotic Risk Evaluation 2	
Message	Test discontinued due to low volume. Panel components may be ordered individually.
Effective Date	6/5/2012
Test Code	5971

May 2012 - Monthly Update, Quest Diagnostics Nichols Institute, Valencia

Thrombotic Risk Evaluation 3	
Message	Test discontinued due to low volume. Panel components may be ordered individually.
Effective Date	6/5/2012
Test Code	5973

von Willebrand Evaluation with Multimers	
Message	Suggested replacement test code 19790 von Willebrand Comprehensive Panel
Effective Date	6/5/2012
Test Code	5981

von Willebrand Evaluation without Multimers	
Message	Test discontinued due to low volume. Panel components may be ordered individually.
Effective Date	6/5/2012
Test Code	5984

von Willebrand Factor Multimers Panel	
Message	Suggested replacement test code 4919 von Willebrand Factor Antigen and 5168 von Willebrand Antigen, Multimeric Analysis
Effective Date	6/5/2012
Test Code	1905

von Willebrand Multimers	
Message	Suggested replacement test code 5168 von Willebrand Antigen, Multimeric Analysis
Effective Date	6/5/2012
Test Code	1906