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 #**
91411	**ThinPrep® Pap and HPV mRNA HR E6/E7 reflex HPV 16,18/45**	10/7/2013	2
91836	**Lung Cancer (NSCLC), ROS1 (6q22) Rearrangement, FISH**	10/21/2013	3
91823	**Cardio IQ™ ST2, Soluble**	11/11/2013	4
16377	**Clostridium difficile Toxin B, Qualitative Real-time PCR**	11/19/2013	5
91778	**HIV-1/2 Antibody Differentiation with Reflex to HIV-1 RNA, Qualitative TMA**	12/9/2013	5

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 #**
S52113		HIV-1 Integrase Genotype	12/2/2013	6
91691		HIV-1 RNA, Quantitative Real-Time PCR with Reflex Genotype (RTI, PI, Integrase)	12/2/2013	7
90926		HIV-1 RNA, Quantitative Real-Time PCR, with Reflex to Integrase Genotype	12/2/2013	7
38766	RF346	**Abalone (f346) IgE**	12/9/2013	8
39498	RF339	**Allspice (f339) IgE**	12/9/2013	9
2621	F57	**Japanese Millet (f57) IgE**	12/9/2013	9
18946		Pain Management, CYP450 2D6/2C19 Genotype, Qualitative	12/9/2013	10
2729	RF226	**Pumpkin Seed (f226) IgE**	12/9/2013	10
90660	RF347	**Quinoa (f347) IgE**	12/9/2013	11
37460	RM211	***Trichophyton mentagrophytes (var interdigitale)* (m211) IgE**	12/9/2013	12
10570	S51640	Cystatin C	12/16/2013	12
S52240		Histamine Release (Chronic Urticaria)	12/16/2013	13
91921	8157	Hypersensitivity Evaluation II	12/16/2013	13
10156	S51757	Lactoferrin, Stool	12/16/2013	14
17198	S48559	Porphyrins, Fractionated, Quantitative and Porphobilinogen, 24-Hour Urine	12/16/2013	14
36592	S48558	Porphyrins, Fractionated, Quantitative, Random Urine	12/16/2013	15
90353		Vitamin B1 (Thiamine), LC/MS/MS	12/16/2013	16
S51650		Vitamin C	12/16/2013	16

DISCONTINUED TESTS Please Note: Not all test codes assigned to each assay are listed in the table of contents. Please refer to the complete listing on the page numbers indicated.			
Test Code	**Test Name**	**Effective Date**	**Page #**

S51171	Enterovirus Panel I, CF (CSF)	12/16/2013	17
S52505	Enterovirus Panel I, CF (Serum)	12/16/2013	17

SEND OUTS 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 #**
S48675		**Canrenone (Spironolactone Metabolite), Serum/Plasma**	12/2/2013	17
S40965		Oxalate, Serum/Plasma	12/2/2013	18

New Test Offerings

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

ThinPrep® Pap and HPV mRNA HR E6/E7 reflex HPV 16,18/45	
Effective Date	**10/7/2013**
Test Code	**91411**
CPT Codes	**88142, 87621**
Specimen Requirements	**ThinPrep® vial with 20 mL PreservCyt® Solution**
Instructions	**Collect cervical specimens in ThinPrep® Pap Test vials containing PreservCyt® Solution with broom-type or cytobrush/spatula collection devices according to the manufacturer's instructions.** **If the ThinPrep® Aliquot Removal procedure will be used prior to cytology processing, refer to the ThinPrep® 2000 or ThinPrep® 3000 System instructions for use on aliquot removal. Transfer 1 mL of the removed aliquot into an APTIMA® Specimen Transfer tube according to the instructions in the APTIMA® Specimen Transfer Kit package insert.** **If testing the specimen after cytology processing using the ThinPrep® 2000 System, process the ThinPrep® liquid cytology specimen in accordance with the ThinPrep® 2000 System instructions for use and the APTIMA® Specimen Transfer Kit package insert. Transfer 1 mL of the fluid remaining in the ThinPrep® Pap test vial into an APTIMA® Specimen Transfer tube according to the instructions in the APTIMA® Specimen Transfer Kit package insert.** **Specimens should be transferred to an APTIMA® Specimen Transfer tube within 30 days of collection if stored at room temperature (see section 3.2).** **ThinPrep PreservCyt® Solution Vials: 1 mL of PreservCyt® Solution specimen must be transferred into 2.9 mL of APTIMA® specimen transport media. Transfer into APTIMA® transport media tubes contained in Specimen Transfer kits, Vaginal Swab collection kits, or Unisex Swab collection kits.**
Transport Temperature	**Room temperature**
Specimen Stability	**Room temperature and Refrigerated: 30 days** **Frozen: Unacceptable**
Reference Range	**Accompanies report**
Methodology	**Papanicolaou Staining/Bethesda System of Reporting, Target Capture, TMA, HPA, Aptima(Gen-Probe)**
Performing Site	**Quest Diagnostics Nichols Institute, Chantilly**
CPU Mappings	**91411-1-ThinPrep®Pap** **Result Code** / **Type** / **Result Name** **86008946** / **Prompt-Result (no return)** / **Source, Cervix (Y/N)**

86008947	**Prompt-Result (no return)**	**Source, Endocervix (Y/N)**
86008948	**Prompt-Result (no return)**	**Source, Vaginal (Y/N)**
86008949	**Prompt-Result (no return)**	**LMP or Status(MM/DD/YYYY)**
86008950	**Prompt-Result (no return)**	**Currently Pregnant (Y/N)**
86008951	**Prompt-Result (no return)**	**Post Menopausal (Y/N)**
86008952	**Prompt-Result (no return)**	**Post Partum (Y/N)**
86008953	**Prompt-Result (no return)**	**Total Hysterectomy (Y/N)**
86008954	**Prompt-Result (no return)**	**Supracerv Hysterect (Y/N)**
86008955	**Prompt-Result (no return)**	**Hormon[HRT,BCP,Depo] (Y/N)**
86008956	**Prompt-Result (no return)**	**IUD (Y/N)**
86008957	**Prompt-Result (no return)**	**Vaccinated for HPV (Y/N)**
86008958	**Prompt-Result (no return)**	**Hx HR HPV,Abn Pap/Tx/Bx**
86008959	**Prompt-Result (no return)**	**Abn Bleeding (Postcoital, PM)**
86008960	**Prompt-Result (no return)**	**Personal/family Hx GYN CA(Y/N)**
86008961	**Prompt-Result (no return)**	**Pelvic Irradiation (Y/N)**
86008962	**Prompt-Result (no return)**	**DES Exposure (Y/N)**
86008963	**Prompt-Result (no return)**	**No Pap in last 7 years (Y/N)**
86008964	**Prompt-Result (no return)**	**Cigarette Smoker (Y/N)**
86008965	**Prompt-Result (no return)**	**Other Risk Factors (Y/N)**
86008966	**Prompt-Result (no return)**	**Other Findings, specify:**
91411		**ThinPrep(R) Pap**
91411-2-HPV mRNA E6/E7		
Result Code		**Result Name**
86008309		**HPV mRNA E6/E7**
This is a true reflex. Please build the unit code below separately.		
Non-Orderable Reflex 91411-3 HPV Genotypes 16,18/45		
Result Code		**Result Name**
86010019		**HPV 16 RNA**
86010020		**HPV 18/45 RNA**

Additional Information	**If the Pap is Normal and the HPV mRNA E6/E7 is Detected, HPV, Genotypes 16,18/45 will be added at an additional charge (CPT code(s) 87621 x2).**

Lung Cancer (NSCLC), ROS1 (6q22) Rearrangement, FISH	
Clinical Significance	ROS1 rearrangement has been identified in 1.7% of non small-cell lung cancer (NSCLC) by using a FISH assay. Treatment with ALK/MET tyrosine kinase inhibitors such as crizotinib (Xalkori(R)) has shown early evidence of therapeutic efficacy in ROS1-rearranged NSCLC (Bergethon, et al. J Clin Oncol. 2012;30:863-870).
Effective Date	**10/21/2013**

Test Code	**91836**
CPT Codes	**88271 (x2), 88274**
Specimen Requirements	**Formalin fixed paraffin embedded tissue block**
Instructions	**Lung tissue biopsy, formalin fixed paraffin-embedded block or 5 charged/+ slides from formalin fixed paraffin embedded tissue. Specimen MUST be fixed in 10% neutral buffered formalin. Fixation between 6 and 48 hours is recommended. Pathology report must accompany paraffin block or slides. Information required in this report includes: Physician identification, specimen identifiers (case and block number), specimen site and type, tissue processing used (routine or microwave), type of fixative, time and duration of fixation, pathologic diagnosis. Ship at room temperature. Do not freeze.**
Transport Temperature	**Room temperature**
Specimen Stability	**See instructions**
Set-up/Analytic Time	**Set up: Daily; Report available: 7 days**
Methodology	**Fluorescent In Situ Hybridization**
Performing Site	**Quest Diagnostics Nichols Institute, San Juan Capistrano**
CPU Mappings	

Result Code	Type	Result Name
86010035		**Lung Ca (NSCLC),ROS1,FISH**
85997860	**Prompt-Result (no return)**	**Specimen Type/Source/Vol:**
86007537	**Prompt-Result (no return)**	**Clinical Indication:**
86007538	**Prompt-Result (no return)**	**Referring Physician:**
85997863	**Prompt-Result (no return)**	**Referring Physician Phone:**
85997864	**Prompt-Result (no return)**	**Client/Phone #:**
86007469	**Prompt-Result (no return)**	**Client Accession #:**
86007539	**Prompt-Result (no return)**	**Patient ID:**

Cardio IQ™ ST2, Soluble	
Clinical Significance	The Critical Diagnostics Presage ST2 Assay is indicated for assessing prognosis of patients with chronic heart failure. Results should be used in conjunction with clinical evaluation.
Effective Date	**11/11/2013**
Test Code	**91823**
CPT Codes	**83520**
Specimen Requirements	**1 mL (0.5 mL minimum) serum**
Instructions	**Cardio IQ™ related tests must be transported frozen. Remove serum/plasma to a transport tube after centrifugation.**
Transport Temperature	**Frozen**
Specimen Stability	**Room temperature: 24 hours** **Refrigerated: 7 days** **Frozen: 18 months**
Set-up/Analytic Time	**Set up: As needed; Report available: Next day**
Reference Range	**< or = 35 ng/mL**

Always Message	**Heart failure patients with sST2 levels >35 ng/mL have worse prognosis.** **Kohli P, et al. Clin Chem. 2012;58:257-266** **Dieplinger B, et al. Clin Chem Acta. 2009;409:33-40** **Ky B, et al. Circ Heart Fail. 2011;4:180-187** **Januzzi L. J. of Cardiovas Trans Res. 2013;6:493 - 500**
Methodology	**Enzyme Linked Immunosorbent Immunoassay**
Performing Site	**Quest Diagnostics Nichols Institute, San Juan Capistrano**
CPU Mappings	**Reporting Title: CARDIO IQ(TM) ST2,SOLUBLE** **Result Code** / **Result Name** / **Unit of Measure** **86010016** / **ST2, Soluble** / **ng/mL**

Clostridium difficile Toxin B, Qualitative Real-time PCR	
Clinical Significance	Epidemiology studies demonstrate that an increased number of C. difficile-associated outbreaks have been reported worldwide, some with increased mortality and morbidity. This pathogen is the major cause of antibiotic-associated diarrhea (AAD) and pseudomembranous colitis. The diagnosis of toxigenic C. difficile is usually done by tissue culture cytotoxicity assay and/or by C. difficile culture identification and/or by enzyme immunoassay (EIA). The tissue culture cytotoxicity assay and C. difficile culture identification are laborious and time consuming, and results are obtained within 3-5 days. Toxin EIA assays display low sensitivity. Molecular amplification techniques (PCR) allow the detection of only a few copies of bacterial DNA in clinical samples, better sensitivity and specificity. In addition, rapid PCR technology can achieve this in about 3 hours. The combination of these characteristics may allow the prompt targeted treatment of C. difficile-associated disease (CDAD) patients and thus a potential improved patient outcome and reduced recovery time.
Effective Date	**11/19/2013**
Test Code	**16377**
CPT Codes	**87493**
Specimen Requirements	**5.0 mL (1.0 mL minimum) stool, unpreserved**
Reject Criteria	**Specimen other than liquid or semi-formed stool; Stool in preservative or mixed with urine; Specimen in wrong transport container**
Instructions	**Transfer liquid or soft stool (but not urine) into the container. Avoid mixing toilet paper, or soap with the sample.**
Transport Temperature	**Store sample refrigerated until shipment. Ship at -70C on dry ice.**
Specimen Stability	**Room temperature: Unacceptable** **Refrigerated: 5 days** **-20C Frozen: Unacceptable** **-70C Frozen: 7 days**
Set-up/Analytic Time	**Set-up: Mon-Sat; Report available: 1-2 days**
Reference Range	**NOT DETECTED**
Always Message	**This test is for use only with liquid or soft stools; performance characteristics of other clinical specimen types have not been established.** **Methodology: BD GeneOhm(TM) C difficile Toxin B Gene (tcdB) Real-time PCR Qualitative Assay.**
Methodology	**Real-Time Polymerase Chain Reaction (RT-PCR)**
Performing Site	**Quest Diagnostics Nichols Institute, San Juan Capistrano**
CPU Mappings	**Result Code** / **Result Name**

86006267	**C difficile, QL PCR**

HIV-1/2 Antibody Differentiation with Reflex to HIV-1 RNA, Qualitative TMA	
Clinical Significance	To diagnose HIV infection.
Effective Date	**12/9/2013**
Test Code	**91778**
CPT Codes	**86701, 86702**
Specimen Requirements	**2 mL (1 mL minimum) serum**
Instructions	**Tube must be labeled with patient identifier and submitted only for HIV testing. Tube should be spun after clotting and remain unopened.**
Transport Temperature	**Room temperature**
Specimen Stability	**Room temperature: 72 hours** **Refrigerated: 5 days** **Frozen: 30 days**
Set-up/Analytic Time	**Set up: Mon-Fri; Report available: 3-9 days**
Reference Range	**HIV 1 Antibody:** — **Negative** **HIV 2 Antibody:** — **Negative** **HIV-1 RNA, QL TMA:** — **Not Detected**
Always Message	**HIV-1 RNA,QL TMA:** **This test was performed using the APTIMA® HIV-RNA Qualitative Assay (Gen-Probe).**
Methodology	**Immunoassay, Transcription Mediated Amplification**
Performing Site	**Quest Diagnostics Nichols Institute, San Juan Capistrano**
CPU Mappings	**91778-1 HIV-1/2 Antibody Differentiation** **Reporting Title: HIV-1/2 AB DIFFERENTIATION** **Result Code** — **Result Name** **86009056** — **HIV 1 Antibody** **86009057** — **HIV 2 Antibody** ***TR 91778-2 HIV-1 RNA, Qualitative TMA*** **86003824** — **HIV-1 RNA,QL TMA** ***TR (True Reflex Flag)*** ***CPU interface clients: If you are set up to use our True Reflexing option, build the unit codes with the TR flag (indicated above) separately.***
Additional Information	**If the HIV-1/2 Antibody Differentiation is Negative/Indeterminate, the HIV-1 RNA, Qualitative TMA is performed at an additional charge (CPT code 87535).**

Test Changes

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

HIV-1 Integrase Genotype	
Effective Date	**12/2/2013**
Test Code	S52113
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano
CPU Mappings	Reporting Title: HIV-1 INTEGRASE GENOTYPE

Result Code	**Type**	**Result Name**	**Unit of Measure**
70000049	Prompt-Result	Value of Last Viral Load	copies/mL
70000048	Prompt-Result	Date Viral Load Collected	
86004058		Raltegravir Resistance	
86008936		Elvitegravir Resistance	
86010036		**Dolutegravir Resistance**	

Tests Affected

Test Codes:	**Name:**
91692	HIV-1 Genotype (RTI, PI, Integrase Inhibitors)

HIV-1 RNA, Quantitative Real-Time PCR with Reflex Genotype (RTI, PI, Integrase)	
Effective Date	**12/2/2013**
Test Code	91691
Specimen Requirements	**7 mL (3.7 mL minimum) plasma collected in an EDTA (lavender-top) tube**
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano
CPU Mappings	91691-1-HIV-1 RNA, Quantitative, Real-Time PCR

Reporting Title: HIV1 RNA, QUAN REAL TIME PCR

Result Code	**Result Name**	**Unit of Measure**
70011130	HIV-1 RNA, QN PCR	Copies/mL
70011135	HIV-1 RNA, QN PCR	Log copies/mL

**TR 91691-2-HIV-1 Genotype*

Result Code	**Result Name**
86007864	HIV-1 Genotype

**TR 91691-3-HIV-1 Integrase Genotype*

Reporting Title: HIV-1 INTEGRASE GENOTYPE

Result Code	**Result Name**
86004058	Raltegravir Resistance
86008936	Elvitegravir Resistance

86010036	**Dolutegravir Resistance**

**TR (True Reflex Flag)*
CPU interface clients: If you are set up to use our True Reflexing option, build the unit codes with the TR flag (indicated above) separately.

HIV-1 RNA, Quantitative Real-Time PCR, with Reflex to Integrase Genotype	
Effective Date	**12/2/2013**
Test Code	90926
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano
CPU Mappings	

90926-1-HIV-1 RNA, Quantitative, Real-Time PCR

Reporting Title: HIV1 RNA, QN REAL TIME PCR

Result Code	**Result Name**	**Unit of Measure**
70011130	HIV-1 RNA, QN PCR	Copies/mL
70011135	HIV-1 RNA, QN PCR	Log copies/mL

**TR 90926-2-HIV-1 Integrase Genotype*

Reporting Title: HIV-1 INTEGRASE GENOTYPE

Result Code	**Result Name**
86004058	Raltegravir Resistance
86008936	Elvitegravir Resistance
86010036	**Dolutegravir Resistance**

**TR (True Reflex Flag)*
CPU interface clients: If you are set up to use our True Reflexing option, build the unit codes with the TR flag (indicated above) separately.

Abalone (f346) IgE	
Effective Date	**12/9/2013**
Former Test Name	*Allergen-Abalone IgE*
Former Test Code	*RF346*
Test Code	**38766**
Specimen Requirements	**0.3 mL (0.15 mL minimum) serum**
Transport Temperature	**Room temperature**
Specimen Stability	**Room temperature and Refrigerated: 14 days** **Frozen: 30 days**
Set-up/Analytic Time	**Set up: daily; Report available: 1-14 days**
Reference Range	**<0.35 kU/L**
Always Message	**This test was developed and its performance characteristics have been determined by Quest Diagnostics Nichols Institute, Valencia. 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	**Immunoassay**
Performing Site	Quest Diagnostics Nichols Institute, Valencia
CPU Mappings	**Result Code** / **Result Name** **86010164** / **Abalone (f346) IgE** **86010165** / **Class**

Allspice (f339) IgE	
Effective Date	**12/9/2013**
Former Test Name	*Allergen-Allspice IgE*
Former Test Code	*RF339*
Test Code	**39498**
Specimen Requirements	**0.3 mL (0.15 mL minimum) serum**
Transport Temperature	**Room temperature**
Specimen Stability	**Room temperature and Refrigerated: 14 days** **Frozen: 30 days**
Set-up/Analytic Time	**Set up: daily; Report available: 1-14 days**
Reference Range	**<0.35 kU/L**
Always Message	**This test was developed and its performance characteristics have been determined by Quest Diagnostics Nichols Institute, Valencia. 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	**Immunoassay**
Performing Site	Quest Diagnostics Nichols Institute, Valencia
CPU Mappings	**Result Code** / **Result Name** **86010166** / **Allspice (f339) IgE** **86010167** / **Class**

Japanese Millet (f57) IgE	
Effective Date	**12/9/2013**
Former Test Name	*Allergen-Japanese Millet IgE*
Former Test Code	*F57*
Test Code	**2621**
Specimen Requirements	**0.3 mL (0.15 mL minimum) serum**
Transport Temperature	**Room temperature**
Specimen Stability	**Room temperature and Refrigerated: 14 days** **Frozen: 30 days**

Set-up/Analytic Time	**Set up: daily; Report available: 1-14 days**
Reference Range	**<0.35 kU/L**
Methodology	**Immunoassay**
Performing Site	Quest Diagnostics Nichols Institute, Valencia
CPU Mappings	**Result Code** / **Result Name** **55161805** / **Japanese Millet (f57) IgE** **55161810** / **Class**

Pain Management, CYP450 2D6/2C19 Genotype, Qualitative	
Effective Date	**12/9/2013**
Test Code	18946
CPT Codes	**81225, 81226**
Specimen Requirements	Preferred: 5 mL (3 mL minimum) collected in an EDTA (lavender-top) tube **Acceptable:** **100 uL (minimum 100 ng) extracted DNA, submitted in a sterile, microcentrifuge tube, room temperature**.
Reject Criteria	**Gross hemolysis; gross lipemia;** clotted specimens
Instructions	**Collect 5 mL EDTA whole blood; store and ship room temperature.** **Extracted DNA: Please call the Chantilly Molecular Genetics Lab for shipping instructions.**
Set-up/Analytic Time	**Set up: Tues; Report available: 7 days**
Reference Range	**Accompanies Report**
Always Message	**The cytochrome P450 gene products are responsible for metabolizing a large number of widely prescribed pain management drugs. The P450 variants can alter enzymatic activity. Many pain management drugs become active once metabolized by CYP450. For proper interpretation of these results, it is important to understand the metabolism of the drug as well as multiple drug therapies. Please consult with a pharmacology expert.** **VARIANTS TESTED:** **CYP2D6*2ABD CYP2D6*8 CYP2D6*19 CYP2D6*41 CYP2D6*35XN** **CYP2D6*3 CYP2D6*9 CYP2D6*20 CYP2D6*1XN CYP2D6*41XN** **CYP2D6*29 CYP2D6*2XN CYP2D6*4ABDJK CYP2D6*10AB** **CYP2D6*5 CYP2D6*11 CYP2D6*35 CYP2D6*4XN CYP2D6*15** **CYP2D6*36 CYP2D6*6ABC CYP2D6*10XN CYP2D6*7 CYP2D6*17** **CYP2D6*40 CYP2D6*17XN CYP2C19*2 CYP2C19*3 QDICT 19130:** **Amplification of the cytochrome P450 genes 2C19 and 2D6 were performed by multiplex polymerase chain reaction (PCR) followed by hybridization to a microarray.** **Since genetic variation and other factors can affect the accuracy of direct mutation testing, these results should be interpreted in light of clinical and familial data.** **The performance characteristics of this assay have been determined by Quest Diagnostics Nichols Institute. Performance characteristics refer to the analytical performance of the test.** **For more information on this test, go to** **http://education.questdiagnostics.com/faq/CYPPain**
Methodology	Polymerase Chain Reaction, **Microarray**

Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano
Tests Affected	**Test Codes:** / **Name:** 18947 / Pain Management, CYP450 2D6/2C19 Genotype, Qualitative (NY)

Pumpkin Seed (f226) IgE	
Effective Date	**12/9/2013**
Former Test Name	*Allergen-Pumpkin Seed IgE*
Former Test Code	*RF226*
Test Code	**2729**
CPT Codes	**86003**
Specimen Requirements	**0.3 mL (0.15 mL minimum) serum**
Transport Temperature	**Room temperature**
Specimen Stability	**Room temperature and Refrigerated: 14 days** **Frozen: 30 days**
Set-up/Analytic Time	**Set up: daily; Report available: 1-14 days**
Reference Range	**<0.35 kU/L**
Always Message	**This test was developed and its performance characteristics have been determined by Quest Diagnostics Nichols Institute, Valencia. 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	**Immunoassay**
Performing Site	**Quest Diagnostics Nichols Institute, Valencia**
CPU Mappings	**Result Code** / **Result Name** **55170105** / **Pumpkin seed (f226) IgE** **55170110** / **Class**

Quinoa (f347) IgE	
Effective Date	**12/9/2013**
Former Test Name	*Allergen-Quinoa IgE*
Former Test Code	*RF347*
Test Code	**90660**
Specimen Requirements	**0.3 mL (0.15 mL minimum) serum**
Transport Temperature	**Room temperature**
Specimen Stability	**Room temperature and Refrigerated: 14 days** **Frozen: 30 days**
Set-up/Analytic Time	**Set up: daily; Report available: 1-14 days**

Reference Range	**<0.35 kU/L**
Always Message	**This test was developed and its performance characteristics have been determined by Quest Diagnostics Nichols Institute, Valencia. 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	**Immunoassay**
Performing Site	Quest Diagnostics Nichols Institute, Valencia
CPU Mappings	**Result Code** / **Result Name** **86009890** / **Quinoa (f347) IgE** **86009891** / **Class**

***Trichophyton mentagrophytes (var interdigitale)* (m211) IgE**	
Effective Date	**12/9/2013**
Former Test Name	*Allergen Trichophyton Men. var interdigitale IgE*
Former Test Code	*RM211*
Test Code	**37460**
Specimen Requirements	**0.3 mL (0.15 mL minimum) serum**
Transport Temperature	**Room temperature**
Specimen Stability	**Room temperature and Refrigerated: 14 days** **Frozen: 30 days**
Set-up/Analytic Time	**Set up: daily; Report available: 1-14 days**
Reference Range	**<0.35 kU/L**
Always Message	**This test was developed and its performance characteristics have been determined by Quest Diagnostics Nichols Institute, Valencia. 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	**Immunoassay**
Performing Site	Quest Diagnostics Nichols Institute, Valencia
CPU Mappings	**Result Code** / **Result Name** **86008648** / **Trichophyton Menta IgE** **86010168** / **Class**

Cystatin C	
Effective Date	**12/16/2013**
Former Test Code	*S51640*
Test Code	**10570**
Specimen Requirements	**1 mL (0.5 mL minimum) plasma EDTA (lavender-top) tube is now acceptable**

Reject Criteria	**Glass tube; viscous fluids**
Transport Temperature	**Room temperature**
Specimen Stability	**Room temperature: 7 days** **Refrigerated: 14 days** Frozen: 90 days
Reference Range	Cystatin C: 0.50-1.00 mg/L **eGFR (cys)** **> or = 60 mL/min/1.73m2**
Methodology	**Spectrophotometric**
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano
CPU Mappings	**Result Code** / **Result Name** / **Unit of Measure** **85995237** / Cystatin C / mg/L **86010284** / **eGFR (cys)** / **mL/min/1.73m2**

Histamine Release (Chronic Urticaria)	
Effective Date	**12/16/2013**
Test Code	S52240
Specimen Requirements	**1.5 mL (1 mL minimum)** serum collected in red-top tube (no gel)
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano
Tests Affected	**Test Codes:** / **Name:** 90123 / Chronic Urticaria Panel 2 (Comprehensive) 90139 / Chronic Urticaria Panel 3

Hypersensitivity Evaluation II	
Clinical Significance	Hypersensitivity Pneumonitis (an inflammatory lung disease) may be demonstrated by detection of precipitating antibodies to a variety of inhaled antigens from organic dusts or molds. A positive test does not always indicate active disease and should be supported by historical and clinical evidence, since some asymptomatic individuals may develop precipitins to one or more antigen types. A negative test does not preclude a diagnosis of hypersensitivity and should be evaluated along with other clinical findings.
Effective Date	**12/16/2013**
Former Test Code	*8157*
Test Code	**91921**
CPT Codes	**86606, 86609 (x4)**
Specimen Requirements	**1 mL (0.8 mL minimum) serum**
Transport Temperature	**Refrigerated**
Specimen Stability	**Room temperature: 24 hours** **Refrigerated: 7 days** **Frozen: 6 months**

Set-up/Analytic Time	**Set up: Tues-Sat; Report available: 4-7 days**
Reference Range	**Not Detected**
Methodology	**Disk Diffusion**
Performing Site	**Quest Diagnostics Nichols Institute, Valencia.**
CPU Mappings	

Result Code	Result Name
86005633	Aspergillus fumigatus
86005628	S. rectivirgula
86005630	T. candidus
86005631	T. sacchari
86005632	T. vulgaris

Lactoferrin, Stool	
Clinical Significance	**Lactoferrin is produced by neutrophils as a component of the innate immune response to bacteria. Lactoferrin in the stool reflects neutrophil entry into the gut and is increased in bowel inflammatory conditions such as Crohn's disease and ulcerative colitis.**
Effective Date	**12/16/2013**
Former Test Code	*S51757*
Test Code	**10156**
Reject Criteria	**Specimen collected in formalin, MF, SAF, or PVA; Cary-Blair media**
Instructions	**Collect undiluted feces in clean, dry, sterile leak proof container. Do not add fixative or preservative. From collection time to the time stool is frozen must not exceed 48 hours. Patients may collect stool and hold at room temperature until it can be properly frozen. The time held at room temperature must not exceed 48 hours from time of collection. Specimens can be delivered to PSC or physician's office for freezing and delivery to the laboratory.**
Transport Temperature	**Frozen**
Specimen Stability	**Room temperature: See Instructions** **Refrigerated: 48 hours** **Frozen: 21 days**
Set-up/Analytic Time	**Set up: Tues, Fri; Report available: 2-6 days**
Performing Site	**Quest Diagnostics Nichols Institute, San Juan Capistrano**
CPU Mappings	

Result Code	Result Name
85998690	Lactoferrin, Stool

Porphyrins, Fractionated, Quantitative and Porphobilinogen, 24-Hour Urine	
Effective Date	**12/16/2013**
Former Test Code	*S48559*
Test Code	**17198**
Reference Range	**Adult Reference Ranges for Porphyrins, Fractionated, Quantitative, 24-Hour Urine**

	Uroporphyrin I: — **4.1-22.4 mcg/24 h**
	Uroporphyrin III: — **0.7-7.4 mcg/24 h**
	Heptacarboxyporphyrin: — **< or = 3.3 mcg/24 h**
	Hexacarboxyporphyrin: — **< or = 10 mcg/24 h**
	Pentacarboxyporphyrin: — **< or = 4.6 mcg/24 h**
	Coproporphyrin I: — **7.1-48.7 mcg/24 h**
	Coproporphyrin III: — **11.0-148.5 mcg/24 h**
	Total Porphyrins — **35.0-210.7 mcg/24 h**
	Porphobilinogen, Quantitative, 24-Hour Urine
	Porphobilinogen, 24 hr Ur: — <2.4 mg/24 h
	Interpretation: — No Reference Range available
Always Message	**If you have any questions regarding these results, please contact the Quest Diagnostics Biochemical Genetics Laboratory at 1-800-642-4657 Ext. 4817 or Ext. 4423 and ask to speak with the laboratory director on call. For general questions about Quest Diagnostics genetic testing, please call the Gene Info line at 1-866-GENE-INFO.**
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano
CPU Mappings	Reporting Title: PORPHYRINS, QT, 24-HR URINE

Result Code	Type	Result Name	Unit of Measure
85993218	Prompt-Result	Total Volume	mL
86010028		**Uroporphyrin I**	**mcg/24 h**
86010029		**Uroporphyrin III**	**mcg/24 h**
85988031		Heptacarboxyporphyrin	mcg/24 h
85988032		Hexacarboxyporphyrin	mcg/24 h
85988033		Pentacarboxyporphyrin	mcg/24 h
86010030		**Coproporphyrin I**	**mcg/24 h**
86010031		**Coproporphyrin III**	**mcg/24 h**
85988035		**Total Porphyrins**	mcg/24 h
86008160		Interpretation	
85987440		Porphobilinogen, 24 hr Ur	mg/24 h
86008983		Interpretation	

Additional Information	**Update report format**

Porphyrins, Fractionated, Quantitative, Random Urine	
Effective Date	**12/16/2013**
Former Test Code	*S48558*
Test Code	36592

Reference Range	**Adult Reference Ranges for Porphyrins, Fractionated, Quantitative, Random Urine**

Uroporphyrin I:	**3.1-18.2 mcg/g creat**
Uroporphyrin III:	**< or = 4.8 mcg/g creat**
Heptacarboxyporphyrin:	**< or = 2.9 mcg/g creat**
Hexacarboxyporphyrin:	**< or = 5.4 mcg/g creat**
Pentacarboxyporphyrin:	**< or = 3.5 mcg/g creat**
Coproporphyrin I:	**5.6-28.6 mcg/g creat**
Coproporphyrin III:	**4.1-76.4 mcg/g creat**
Total Porphyrins	**23.3-132.4 mcg/g creat**

Always Message	**If you have any questions regarding these results, please contact the Quest Diagnostics Biochemical Genetics Laboratory at 1-800-642-4657 Ext. 4817 or Ext. 4423 and ask to speak with the laboratory director on call. For general questions about Quest Diagnostics genetic testing, please call the Gene Info line at 1-866-GENE-INFO.**
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano
CPU Mappings	

Reporting Title: PORPHYRINS, QT, RANDOM URINE

Result Code	Result Name	Unit of Measure
86010021	**Uroporphyrin I**	**mcg/g creat**
86010022	**Uroporphyrin III**	**mcg/g creat**
85990631	Heptacarboxyporphyrin	mcg/g creat
85990632	Hexacarboxyporphyrin	mcg/g creat
85990633	Pentacarboxyporphyrin	mcg/g creat
86010023	**Coproporphyrin I**	**mcg/g creat**
86010024	**Coproporphyrin III**	**mcg/g creat**
85990635	Total Porphyrins	mcg/g creat
86008161	Interpretation	

Additional Information	**Update report format**

Vitamin B1 (Thiamine), LC/MS/MS	
Effective Date	**12/16/2013**
Test Code	90353
Specimen Requirements	2 mL plasma collected in an EDTA (lavender-top) tube **Sodium heparin (green-top) tube is no longer acceptable**
Reject Criteria	Lipemic and hemolyzed specimens; Received room temperature; Received refrigerated; Not protected from light; Specimens collected in gel barrier tube; **Tubes other than lavender/red-top (no gel)**; Prepared from blood left at room temperature 4hrs or more; Serum Separator Tube
Instructions	**Plasma: Collect blood in a Lavender top tube. Remove plasma within 4 hours of collection and transfer to a light protected pour off tube.** If separation of cells can't be performed immediately after collection, keep the whole

	blood refrigerated and protected from light. The separation of cells must be completed within 4 hours of collection. Separate cells by centrifugation at 2-8° C for 8-10 minutes. Transfer plasma to dark brown polypropylene or polyethylene transport tubes to protect from light and freeze tube immediately. Alternately, neutral colored polypropylene or polyethylene tubes can be used if wrapped in aluminum foil. Ship frozen tubes at -10 to -30° C. Samples not protected from light or shipped at room or refrigerated temperature are unacceptable. Serum: Collect blood in plain red top evacuated tube. Allow to clot at 20-25° C for 20-30 minutes. Centrifuge at 2-8° C for 8-10 minutes. Transfer serum to dark brown polypropylene or polyethylene transport tube to protect from light and freeze tube immediately. Alternately, neutral colored polypropylene or polyethylene tubes can be used if wrapped in aluminum foil. Ship the frozen tubes at -10 to -30° C. Samples not protected from light or shipped at room or refrigerated temperature are unacceptable. Overnight fasting is preferred. Patient is to be restricted from alcohol, coffee, tea, raw fish, liver, pork, sausage and vitamins for at least 24 hours before sample collection.
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano

Vitamin C	
Effective Date	**12/16/2013**
Test Code	S51650
Specimen Requirements	2 mL frozen serum **Plasma is no longer acceptable**
Instructions	**Collect blood in a plain red-top tube. Allow to clot at room temperature (20-25° C) for 20-30 min. Centrifugation at 1000 g (2000-2200 rpm) and at 2-8° C for 8-10 min. Aliquot the serum into an amber polypropylene or polyethylene tube to protect sample from light. Alternatively, neutral color polypropylene or polyethylene tube wrapped in aluminum foil can be used. Neutral color tubes must be wrapped in aluminum foil. Cap securely. Serum must be prepared and stored in dry ice within 3 hours of sample collection.** Do not thaw. Overnight fasting is preferred. Patient should refrain from taking vitamin C supplements or fruits 24 hours prior to sample collection.
Performing Site	Quest Diagnostics Nichols Institute, San Juan Capistrano
Tests Affected	**Test Codes:** / **Name:** S51779 / Vitamin C (with Dilution)

Discontinued Tests

Enterovirus Panel I, CF (CSF)	
Effective Date	**12/16/2013**
Test Code	S51171
Additional Information	The recommended alternative is S51731 -Enterovirus RNA, Qualitative Real-Time PCR.

Enterovirus Panel I, CF (Serum)	
Effective Date	**12/16/2013**
Test Code	S52505
Additional Information	Recommended alternatives are: • S49049 -Echovirus Antibodies, Serum • S50348 -Coxsackie B (1-6) Antibodies, Serum

	• S46645 -Poliovirus Antibody, Neutralization

Test Send Outs (Referrals)

Canrenone (Spironolactone Metabolite), Serum/Plasma	
Effective Date	**12/2/2013**
Former Test Name	*Spironolactone & Metabolite*
Test Code	S48675
Specimen Requirements	**Preferred:** **1 mL** (**0.4 mL** minimum) serum collected in a red-top tube (no gel) Acceptable: Plasma collected in an EDTA (lavender-top) or **EDTA (pink-top) tube**
Reject Criteria	**Received room temperature;** serum separator or plasma separator tube
Specimen Stability	**Room temperature: 48 hours** **Refrigerated and Frozen: 30 days**
Set-up/Analytic Time	Set up: Tues; **Report available: 2 days**
Reference Range	**Spironolactone is rapidly metabolized to canrenone in plasma, a pharmacologically active metabolite with an average half-life of 20 h.** **After single doses of spironolactone in fasting subjects, reported peak plasma canrenone concentrations were:** **Spironolactone Dose - Peak Canrenone Concentration** **200 mg - 225 ng/mL** **100 mg - 98 ng/mL** **50mg - 60 ng/mL**
Units Of Measure	**ng/mL**
Methodology	**Liquid Chromatography/Tandem Mass Spectrometry**
CPU Mappings	**Result Code** | **Result Name** 100325 | **Canrenone (Spironolactone Metabolite), Serum/Plasma**

Oxalate, Serum/Plasma	
Effective Date	**12/2/2013**
Test Code	S40965
Specimen Requirements	**Preferred:** 3 mL (**1.2 mL minimum**) serum collected in a red-top tube (no gel) **Acceptable:** Plasma collected in an **EDTA (lavender-top) or EDTA (pink-top) tube**
Reject Criteria	**Received room temperature**; **sodium fluoride/potassium oxalate (gray-top) tube; polymer gel separation tube (serum separator or plasma separator)**
Instructions	**Promptly centrifuge and separate serum or plasma into a plastic, screw-cap, preservative-free vial using approved guidelines.**
Reference Range	**Normal:** | **2.5 (SD 0.7) uMol/L plasma**

	Toxic: **200 uMol/L plasma**
CPU Mappings	**Result Code** / **Result Name** 40966 / **Oxalate, Serum/Plasma**