

January 28, 2008

**Dear Colleague:**

*Specialty Laboratories* is pleased to announce the immediate availability of a highly sensitive and specific assay, Vitamin D Total (3541), which measures 25-OH Vitamin D2 (ergocalciferol, ercalciol), 25-OH Vitamin D3 (colecalciferol, calciol) and 25-OH Vitamin D Total by tandem mass spectrometry (LC/MS/MS). This new methodology is superior to other technologies for providing more accurate results with a faster turn-around time. Please note that specimens should not have any additives or preservatives. Serum separator tubes are acceptable.

There have been several changes to CPT Codes for 2008, as well as some specimen stability restrictions for Protein Electrophoresis (PEP) (1580), Islet Cell Autoantibodies Evaluation (3069), and Epstein-Barr Virus (2116F), (2121F), (2126F) assays.

In our efforts to make specimen submission easier, we want you to be aware that an Amber tube can be used to replace foil wrapping for any sample that must be protected from light. Tests that require protection from light include Vitamin B1 (3515W) and Vitamin C (3508). Amber tubes are available from our supply order system online or by calling Client Relations.

Coagulation testing often requires special attention for good results. When sending samples for coagulation studies, please be sure to provide platelet-poor plasma by spinning the specimen twice. After the first spin, draw off the plasma into another tube and spin a second time to assure platelet concentration of  $<10 \times 10^9/L$ . Remember, the only anticoagulant acceptable for coagulation studies is Sodium Citrate. For a full description of specimen preparation for coagulation studies, please go to the Specialty Labs Web site or the Directory of Service.

For additional information, you may also visit our Web site at [www.specialtylabs.com](http://www.specialtylabs.com) or contact Client Relations at 800-421-4449.

*Specialty Laboratories* would like to thank you, our clients, for allowing us to be your preferred reference laboratory. We are continuously working to provide you and your physicians with the excellent service and support that your clinical services demand.

Respectfully Yours,



Christopher Lockhart, M.D.  
Laboratory Director

# New Tests:

**3541 Vitamin D, 25-OH Total [LC-MS-MS]**

**(Available Immediately)**

<b>Component</b>	<b>Method</b>	<b>ReferenceRange/Units</b>
<b>Vitamin D, 25-OH, D2</b>	<b>LC-MS-MS</b>	<b>ng/mL</b>
<b>Vitamin D, 25-OH, D3</b>	<b>LC-MS-MS</b>	<b>ng/mL</b>
<b>Vitamin D, 25-OH, Total</b>	<b>Calculation</b>	<b>20 – 100 ng/mL</b>

Specimen/Stability	Serum 1.0 (0.5) mL; Ambient 3 weeks, Refrigerated 3 weeks, Frozen 3 weeks
Clinical Utility	The measurement of circulating levels of 25-hydroxyvitamin D3 and 25-hydroxyvitamin D2 (25OHD) is important in the diagnosis and management of disorders of calcium metabolism. Low levels of 25OHD are indicative of vitamin D deficiency associated with hypocalcemia, hypophosphatemia, secondary hyperpara-thyroidism, elevated alkaline phosphatase and osteomalacia in adults and rickets in children. In patients suspected of vitamin intoxication, elevated levels of 25OHD distinguish this disorder from other disorders that cause hypercalcemia.
Schedule	Monday-Saturday
Report	Next day
CPT Code	82306
Note	25-OHD3 indicates both the endogenous production and supplementation. 25-OHD2 is an indicator of exogenous sources such as diet or supplementation. Therapy is based on measurement of Total 25-OHD, with levels <20 ng/mL indicative of Vitamin D deficiency while levels between 20 ng/mL and 30 ng/mL suggest insufficiency. Optimal levels are >30 ng/mL.
Collection	Do not use any additives. SST tubes are acceptable.

# Test Changes:

<b>3521</b>	<b>Vitamin D, 25-Hydroxy</b>	Effective	Immediately
		CPT Code	82306
		Also Affected	3523, 3525
<b>5900</b>	<b>Activated Protein C Resistance</b>	Effective	Immediately
		CPT Code	85307
		Also Affected	5901, 5971, 5972, 5973
<b>4866UR</b>	<b>Magnesium Urine Random</b>	Effective	Immediately
		Collection	Adjust pH between 2 and 3 to prevent Magnesium precipitate.
		Also Affected	4866U
<b>1580</b>	<b>Protein Electrophoresis (PEP)</b>	Effective	Immediately
		Specimen/Stability	Serum 1.5 (1.0) mL; Refrigerated 10 days, Frozen 1 month
		Also Affected	1580G, 1583, 1583G, 1584
<b>3851</b>	<b>Creatine Kinase (CK) Isoenzymes</b>	Effective	Immediately
		Specimen/Stability	Serum 2.0 (1.0) mL; Ambient 3 days, Refrigerated 7 day (Frozen is no longer accepted)
<b>3069</b>	<b>Islet Cell Autoantibodies Evaluation</b>	Effective	Immediately
		Specimen/Stability	Serum 2.0 (0.8) mL; Ambient 2 days, Refrigerated 7 days, Frozen 2 Months (Plasma is no longer accepted)
		Also affected	1165, 3066
<b>2116F</b>	<b>Epstein-Barr Virus Viral Capsid Ag (VCA) IgG Abs Fluid</b>	Effective	February 19
		DOS Code	2116C
		Name	Epstein-Barr Virus Viral Capsid Ag (VCA) IgG Abs CSF
		Specimen/Stability	CSF 1.0 (0.5) mL; Ambient 2 days, Refrigerated 7 days, Frozen 2 Months (Fluid is no longer accepted)
<b>2121F</b>	<b>Epstein-Barr Virus Viral Capsid Ag (VCA) IgM Abs Fluid</b>	Effective	February 19
		DOS Code	2121C
		Name	Epstein-Barr Virus Viral Capsid Ag (VCA) IgM Abs CSF
		Specimen/Stability	CSF 1.0 (0.5) mL; Ambient 2 days, Refrigerated 7 days, Frozen 2 Months (Fluid is no longer accepted)

**2126F****Epstein-Barr Virus Early Ag (EA) IgG Abs Fluid**

Effective February 19  
 DOS Code 2126C  
 Name Epstein-Barr Virus Early Ag (EA) IgG Abs CSF  
 Specimen/Stability CSF 1.0 (0.5) mL; Ambient 2 days, Refrigerated 7 days, Frozen 2 Months  
 (Fluid is no longer accepted)

**3553****S-100B AccuQuant® Serum**

Effective February 19  
 Ref Range New Ranges:

Age	Male (ug/L)	Female (ug/L)
<1 Y	0.44 – 1.93	0.45 – 2.24
1 Y	0.32 – 1.33	0.49 - 1.37
2 Y	0.39 – 0.97	0.59 - 1.61
3 Y	0.32 – 1.27	0.37 - 0.89
4 Y	0.31 – 1.00	0.44 - 1.10
5 Y	0.32 – 1.24	0.36 - 1.10
6 Y	0.43 – 0.96	0.65 - 1.17
7 Y	0.65 – 0.96	0.39 - 0.96
8 Y	1.34 – 4.56	1.03 - 4.60
9 Y	0.91 – 1.75	1.44 - 2.03
10-11 Y	0.81 – 2.63	0.97 - 2.10
12 Y	1.20 – 2.00	0.96 - 2.21
13 Y	0.99 – 1.89	1.16 - 2.23
14-15 Y	0.45 – 0.72	0.52 – 0.97
16-19 Y	0.02 – 0.20	0.02 – 0.20
20-24 Y	0.05 – 0.15	0.05 – 0.15
25-29 Y	0.06 – 0.15	0.06 – 0.15
>29 Y	0.03 – 0.10	0.03 – 0.10

Source: Clinical Chemistry 49:967-970, 2003

**3146****Dehydroepiandrosterone (DHEA)**

Effective February 19  
 Ref Range New Pediatric Ranges:

Age	Male (ng/mL)	Female (ng/mL)
0 - 1 D	3.20 – 11.00	4.60 – 12.00
1 - 7 D	0.90 – 8.70	1.20 – 9.30
7 -28 D	0.45 - 5.80	9.00 - 5.80
1 -12 M	0.09 - 2.90	0.17 - 1.70
1 - 4 Y	0.12 - 0.90	0.20 - 0.45
6 - 9 Y	0.13 - 1.87	0.18 - 1.89
10-11 Y	0.31 - 2.05	1.12 - 2.24
12-14 Y	0.83 - 2.58	0.98 - 3.60

New Tanner Stage Ranges:

Stage	Male	ng/mL	Female	ng/mL
1	<9.8 Y	0.31 – 3.45	<9.2 Y	0.31 – 3.45
2	9.8-14.5 Y	1.10 – 4.95	9.2-13.7 Y	1.50 – 5.70
3	10.7-15.4 Y	1.70 – 5.85	10.0-14.4 Y	2.00 – 6.00
4	11.8-16.2 Y	1.60 – 6.40	10.7-15.6 Y	2.00 – 7.80
5	12.8-17.3 Y	2.50 – 9.00	11.8-18.6 Y	2.15 – 8.50

Source: Pediatric reference ranges, by J. Soldin, Carol Brugnara and Edward Wong, Sixth Edition.

Adult (>18 Y) ranges remain the same:

Male	Female
1.80 – 12.50	1.30 – 9.80

**9842 HIV p24 Antigen, Qualitative**

Effective February 19  
Name HIV-1 p24 Antigen, Qualitative w/Reflex Neutralization  
Ref Range Nonreactive  
Note This test is not intended nor approved for Blood Donor Screening. Repeatedly reactive results will automatically reflex to HIV-1 Antigen Neutralization confirmation for an additional charge (CPT 87390).

**2454 Hepatitis B Virus Surface Antigen**

Effective February 19  
Name Hepatitis B Virus Surface Antigen w/Reflex Neutralization  
Ref Range Nonreactive  
Note Presumptively reactive results will automatically reflex to Hepatitis B Virus Surface Ag Neutralization confirmation for an additional charge (CPT 87341).  
Also affects 2461, 2463, 2464, 7756, 7757, 7758, 9928

**4190U Nicotine & Metabolite Urine**

Effective February 19  
Component Nornicotine - REMOVE  
Anabasine - REMOVE