

TEST CHANGE – METHODOLOGY

Notification Date: 3/17/2025

Effective Date: 3/26/2025

Test Name: Vitamin D Total, Serum or Plasma (25-Hydroxyvitamin D)

Test ID: LAB3418

Explanation: On the effective date, Vitamin D, Total will move to new instrumentation. This new methodology allows an improved turnaround time for clinic patients and a higher level of quantification when assessing potential toxicity. This method change also improves analytical performance in the presence of elevated endogenous interferences such as hemoglobin, bilirubin, and serum proteins.

| Current Method – Vanderbilt Hospital Laboratory |
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| Chemiluminescent Microparticle Immunoassay (CMIA) |

| New Method – VML at MetroCenter |
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| Electrochemiluminescent Immunoassay |

| Current Measurement Range |
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| 4 – 100 ng/mL |

| New Measurement Range |
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| 6 – 240 ng/mL |

| Current Reference Value |
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| 25 – 80 ng/mL |
| Severe Deficiency: < 10 ng/mL |
| Mild to Moderate Deficiency: 10 – 24 ng/mL |
| Sufficient Levels: 25 – 80 ng/mL |
| Toxicity Possible: >80 ng/mL |

| New Reference Value |
|-----------------------------|
| 30 – 80 ng/mL |
| Insufficient: 20 – 29 ng/mL |
| Sufficient: 30 – 80 ng/mL |
| Toxicity: >80 ng/mL |

Questions: Please get in touch with Vanderbilt Medical Laboratories Customer Service at 615-875-5227 (5-LABS) or 800-551-5227 or visit our website: [Home | Vanderbilt Medical Laboratories \(yumc.org\)](http://Home | Vanderbilt Medical Laboratories (yumc.org))