

## 25-HYDROXY VITAMIN D

### ENZYME IMMUNOASSAY (EIA) FOR MICROPLATE READERS

510k Cleared   
Health Canada Registered

#### **RAPID, RELIABLE AND PRECISE RESULTS**

- Fast reportable results in about two hours
- No need to run patient samples in duplicate
- Report total 25-OH Vitamin D (D2+D3) from serum or plasma samples
- Intra-assay %CV of 2.2% to 13.3%, total %CV of 4.9% to 17.6% (N = 80)

#### **ACCURATE AND VIRTUALLY INTERFERENCE FREE**

- An automated extraction step that removes interfering substances
- Improved interference profile when compared to current displacement methods

#### **DIRECT TRACEABILITY TO NIST SRM-972**

- Diazyme's 25-OH Vitamin D calibrators are directly traceable to the reference material SRM-972 from the US NIST
- Results correlate to LC-IDMS/MS





## 25-Hydroxy Vitamin D Enzyme Immunoassay (EIA)

# 25-HYDROXY VITAMIN D

**ENZYME IMMUNOASSAY (EIA)  
WITH CALIBRATOR FOR MANUAL AND  
AUTOMATED MICROPLATE READERS**

<b>Method</b>	Extraction/EIA
<b>Calibration</b>	Six calibration levels
<b>Sample Type</b>	<ul style="list-style-type: none"> <li>• Serum</li> <li>• EDTA Plasma</li> <li>• Heparin Plasma</li> </ul>
<b>Sample Volume</b>	20 µL
<b>Linearity</b>	8.3 - 143.6 ng/ml
<b>Accuracy</b>	<ul style="list-style-type: none"> <li>• N = 58</li> <li>• Sample Range: 11.9 ng/mL - 131.5 ng/mL</li> <li>• R<sup>2</sup> = 0.930</li> <li>• Slope = 0.941</li> <li>• y intercept = 1.448 ng/mL</li> </ul>
<b>Precision</b>	<ul style="list-style-type: none"> <li>• N = 80</li> <li>• Range: 10.5 ng/mL - 116.8 ng/mL</li> <li>• Intra-Assay %CV = 2.2% - 13.3%</li> <li>• Total %CV = 4.9% - 17.6%</li> </ul>
<i>The following substances do not interfere with this assay at the levels tested (less than 10% basis):</i>	Hemoglobin: up to 500 mg/dL Bilirubin: up to 40 mg/dL Conjugated Bilirubin: up to 40 mg/dL Triglycerides: up to 450 mg/dL Ascorbic Acid: up to 10 mM

### Test Scheme for Automated Microplate Reader



Parameter questions for 25-OH Vitamin D assay should be addressed to Diazyme technical support. Please call 858.455.4768 or email [support@diazyme.com](mailto:support@diazyme.com)

### ACCURATE

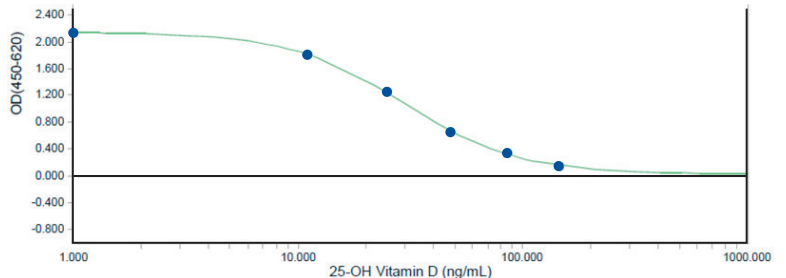
- Automated extraction removes lipids and proteins thereby increasing assay reliability
- Directly traceable to NIST SRM-972
- Detects total Vitamin D levels (D2+D3)

### FAST AND CONVENIENT

- Results in about 2 hours
- Utilized on both manual and automated microplate readers

### ANALYTICALLY EXCELLENT

- Linearity range up to 8.3 - 143.6 ng/mL
- Intra-assay %CV - 2.2% - 13.3%
- Total %CV - 4.9% - 17.6%



The large change in optical density is one of the key reasons for the assay's outstanding analytical performance.

### DIAZYME LABORATORIES

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