

## Change in Instrumentation & Methodology: Vitamin D (Total), 25 OH

**Effective February 8, 2024**, Clinical Labs of Hawaii (CLH) is pleased to announce a change in the method and analytic platform for Vitamin D, 25 OH (Hydroxyvitamin D, which includes 25-hydroxyvitamin D2 and 25-hydroxyvitamin D3). Testing will be performed on the Elecsys® Vitamin D Total III assay run on the Roche cobas® utilizing a competitive electrochemiluminescence binding assay.

### CLH has performed extensive validation studies on the new assay. Benefits include:

- *It provides a robust measurement of all sample types, with no restrictions of use in plasma samples.*
- *It increases the upper reportable range to 240 ng/mL.*
- *It has negligible cross-reactivity to the 24,25 dihydroxyvitamin D metabolite.*
- *It is certified by the Centers for Disease Control and Prevention (CDC) for accuracy and precision, assessed by the Vitamin D Standardization Certification Program (VDSCP).*
- *It is standardized against and is traceable to the National Institute of Standards and Technology Standard Reference material 2972.*
- *It has an increased biotin tolerance threshold (up to 600 ng/mL), thereby reducing biotin interference for more accurate results.*

The change in instrumentation and methodology will not affect the current interpretative ranges used by CLH. All test codes also remain the same:

Vitamin D, 25 OH	
Test code	VITD25 (2718)
Specimen Requirements	1.0 ml (min 0.5 ml) serum from SST or plasma from Lithium Heparin
Reference Range	<p>Pediatric (&lt;17 years)</p> <p>Deficiency &lt;15 ng/mL</p> <p>Insufficiency 15 - 19 ng/mL</p> <p>Sufficiency 20 - 100 ng/mL</p> <p>Adult</p> <p>Deficiency &lt;20 ng/mL</p> <p>Insufficiency 20 - 29 ng/mL</p> <p>Sufficiency 30 - 100 ng/mL</p>

If you have any questions, please contact our Client Services Department at 808-677-7998 (Oahu) or 1-866-281-6816 (toll free).

### References:

1. Roche Diagnostics, Method Sheet Elecsys® Vitamin D total III, 2022.

***Thank you for choosing Clinical Labs of Hawaii.***