CDC CLINICAL STANDARDIZATION PROGRAMS
CDC VITAMIN D STANDARDIZATION-CERTIFICATION PROGRAM (CDC VDSCP)

# Certificate of Analytical Quality

CENTERS FOR DISEASE CONTROL AND PREVENTION

**Participant:** GC Laboratories
**Analyte:** Total 25-hydroxyvitamin D (25OHD)
**Matrix:** Serum
**Date of Certification:** Quarter 2, 2022

The participant has documented traceability to the CDC Clinical Standardization Programs by performing a direct comparison with the CDC ID-LC-MS/MS Reference Method for 25-hydroxyvitamin $D_2$ and $D_3$ using unaltered human sera from single donors covering the concentration range of 17.4-182 nmol/L. This analytical system has demonstrated the ability to meet the performance criteria for accuracy and precision described below. The comparison shows the performance of this analytical system is as follows and is valid for **one** quarter after the date of certification:

| Mean Bias | Mean CV |
|---|---|
| 3.0% | 2.7% |
| Mean Bias within suggested range | Mean CV within suggested range |

## ANALYTICAL SYSTEM EVALUATED

Assay Identifier: LC-MS/MS
Methodology: LC-MS/MS

| Instrument | Calibrator | Reagent |
|---|---|---|
| Sciex<br>Triple Quad 4500 | Perkinelmer<br>MSMS VitaminD Calibrator L1-L6<br>Lot(s): 672542,<br>679314 & 694859 | Perkinelmer<br>Reagent Kit<br>Lot(s): 681834<br>& 694860 |

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