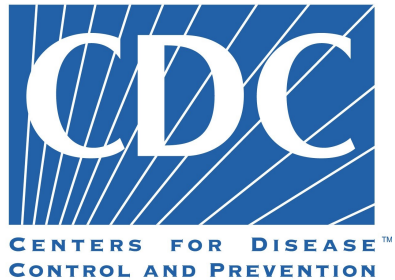


Certificate of Analytical Quality



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 D₂ and D₃ 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
Sciex
Triple Quad 4500

Calibrator
Perkinelmer
MSMS VitaminD Calibrator L1-L6
Lot(s): 672542,
679314 & 694859

Reagent
Perkinelmer
Reagent Kit
Lot(s): 681834
& 694860

A handwritten signature in blue ink, appearing to read "Hubert W. Vesper".

Hubert W. Vesper, Ph.D.
Director, CDC Clinical Standardization Programs

