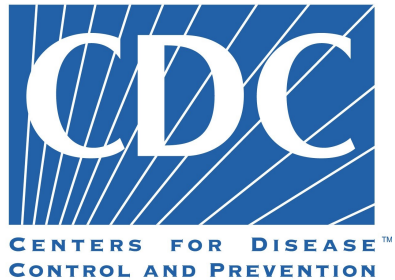


Certificate of Analytical Quality



Participant: GC Laboratories

Analyte: Total Testosterone

Matrix: Serum

Date of Certification: Quarter 2, 2022

This certifies that GC Laboratories has documented traceability to the CDC Clinical Standardization Programs by performing a direct comparison with the CDC ID-LC-MS/MS Reference Method for Total Testosterone using unaltered human sera from single donors covering the concentration range of 8.77-941 mg/dL. 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

2.1%

Mean Bias within suggested range

ANALYTICAL SYSTEM EVALUATED

Assay Identifier: LC-MS/MS

Methodology: LC-MS/MS

Instrument

Sciex
Triple Quad 6500+

Calibrator

Chromsystems
MassChrom® Steroid Panel 2 Cal 1-6
Lot(s): 920

Reagent

In-House
Tert-Butyl methyl ether, 99%
Lot(s): A0401770

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

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

