

CDC Vitamin D Standardization-Certification Program (VDSCP)—Total 25-hydroxyvitamin D Certified Procedures (UPDATED 9/2016)

The following laboratories have successfully passed the performance criterion of $\pm 5\%$ mean bias to the CDC and University of Ghent Vitamin D2 and D3 Reference Method and an overall imprecision of $<10\%$ over the concentration range of 22-275 nmol/L for total 25-hydroxyvitamin D. Laboratories are awarded certificates for successfully completing bias and imprecision testing using specific methods, reagent lots, calibrator lots and instrumentation. During the year it is the responsibility of the participant to ensure that the results of their method remain consistent over time, throughout the year, between lots, and over the measurement range reported. It is not the intent of the CDC VDSCP to certify each lot of reagents, or to issue certification beyond the measurement range of 22.5-275 nmol/L, at this time.

Participants are listed in order of enrollment date.

Participant	Measurement Principle	Method Identifier*	Measurement Range (nmol/L)	Participants contact information	Certification Date (active for 1 year)
Vitamin D Research Group University College Cork	LC/MS/MS [†]	Total serum 25OHD	1.99–254	Prof. Kevin Cashman k.cashman@ucc.ie	Feb 2014 Feb 2015 Feb 2016
Endocrine Sciences Laboratory, LabCorp	LC/MS/MS [†]	Test Code 500510 (Total)	2.4–625	Dr. Brett Holmquist Holmqub@labcorp.com or Dr. Walt Chandler Chandld@labcorp.com	Feb 2014 Feb 2015 Feb 2016
Siemens Healthcare Diagnostics	Chemiluminescence Immunoassay	ADVIA Centaur® Vitamin D Total assay	10.5–375	James Freeman james.freeman@siemens.com	Feb 2014 Feb 2015 Feb 2016
Douglass Hanly Moir Pathology	LC/MS/MS [†]	Serum 25 hydroxyvitamin D2 and D3	4–600	Dr. Grahame Caldwell gcaldwell@dhm.com.au Andy Liu aliu@dhm.com.au	Feb 2014 Feb 2015 May 2016
Immunodiagnostic Systems (IDS)	Chemiluminescence Immunoassay	IDS-iSYS 25-Hydroxy Vitamin D ⁵	18–313	Heather Pham heather.pham@idsplc.com	Feb 2014 Feb 2015 Feb 2016
Department of Clinical Chemistry, University of Leige, CHU Sart-Tilman, Liege, Belgium	LC/MS/MS [†]	Serum Total Vitamin D	5–625	Prof. Etienne Cavalier etienne.cavalier@chu.ulg.ac.be	Feb 2014 May 2015 May 2016

Centre for Microscopy, Characterisation and Analysis, University of Western Australia	LC/MS/MS [†]	Serum 25(OH)D3, Epi-25(OH)D3, 25(OH)D2	2–200	Dr. Michael W Clarke michael.clarke@uwa.edu.au	Aug 2014 Aug 2015 Aug 2016
Covance Central Laboratory Services, Inc.	LC/MS/MS [†]	Total 25 Hydroxy Vitamin D2/D3	1.25–1996.80	Cristina Hedin cristina.hedin@covance.com	Aug 2014 Aug 2015 Aug 2016
DiaSorin	Chemiluminescence Immunoassay	LIAISON® 25 OH Vitamin D TOTAL Assay	10–375	Kym Pieper kym.pieper@diasorin.com Cole Gilman cole.gilman@diasorin.com	Nov 2014 Nov 2015
Quest Diagnostics Nichols Institute of Valencia, Inc	LC/MS/MS [†]	Total 25-HydroxyvitaminD (Vitamin D2/Vitamin D3)	10–1280	Amit Ghoshal PhD Quest Diagnostics Nichols Institute Valencia, Inc.	Nov 2014 Nov 2015
University of Minnesota, Molecular Epidemiology and Biomarker Research Laboratory (MEBRL)	LC/MS/MS [†]	25-Hydroxy Vitamin D2 and D3	5.3–1240	Dr. Myron Gross gross001@umn.edu	Nov 2014 Nov 2015
Abbott Laboratories	Chemiluminescence Immunoassay	ARCHITECT 25-OH Vitamin D (List Number 3L52)	32.5–240.0	Karen Gignac karen.gignac@abbott.com	May 2015 Aug 2016
Chromsystems Instruments & Chemicals GmbH	LC-MS/MS [†]	MassChrom® 25-OH-Vitamin D3/D2 in Serum/Plasma	1.50–624	Dr. Ralf Fischer fischer@chromsystems.de	May 2015 May 2016
Fujirebio Inc.	Chemiluminescence Enzyme Immunoassay	Lumipulse® G 25-OH Vitamin D	10–375	Kazuhide Yoshikawa kd-yoshikawa@fujirebio.co.jp	Nov 2015

Abbott Laboratories	Chemiluminescence Immunoassay	ARCHITECT 25-OH Vitamin D (List Number 5P02)	8.5–389.8	Dr. Christian Popp christian.popp@abbott.com	Feb 2016
Nutritional Biomarkers Branch CDC	LC-MS/MS†	#4027 routine method for serum 25OHD3, 25OHD2, C3-epimer-25OHD3	4–430	Rosemary Schleicher, PhD RSchleicher@cdc.gov	May 2016
CCR Laboratory University of Maryland Clinical Pathology	Protein crash / HPLC – Tandem Mass Spectrometry	LC-MS/MS†	10–400	Dr. Show-Hong Duh sduh@umm.edu	Aug 2016
Nutrition Research Division Health Canada	LC-MS/MS†	Serum Total 25OHD, 25OHD3, 25OHD2 and 3-epi-25OHD3	2.5–275	Dr. Stephen Brooks steve.brooks@hc-sc.gc.ca Kurtis Sarafin kurtis.sarafin@hc-sc.gc.ca	Aug 2016
Waters	LC-MS/MS†	Total Vitamin D (25(OH)D3 / 25(OH)D2), in plasma and serum	10–750	Norma Breen norma_breen@waters.com	Aug 2016

* Method Identifier is an internal code used to represent the standardized method used by the laboratory or manufacturer. All methods are certified only for total 25-hydroxyvitamin D measurement in human serum.

† LC/MS/MS – Liquid Chromatography Tandem Mass Spectrometry