



Vitamin D reference materials

Vitamin D deficiency is being implicated in an increasing number of medical conditions including rickets, cardiovascular disease, various cancers, Multiple Sclerosis, bone diseases and depression. It has been suggested that approximately 1 billion individuals in the world may be suffering from some form of Vitamin D deficiency.

The key analytical target compounds for Vitamin D monitoring have been identified as hydroxy and dihydroxy metabolites of Vitamin D. Monitoring

of these key metabolites is now routine, with many laboratories using both immunoassay and liquid chromatography - mass spectrometry and its variants (LC-MSn). The growing availability of LC-MSn has permitted the development of assays with greater overall certainty in their determinations.

LGC Standards has brought together a range of materials to satisfy laboratories' requirements for instrumental analysis of Vitamin D related substances; from individual matrix-matched serum samples to deuterium labelled internal standards. This range of materials provides laboratories with all the products they need to deliver accurate and reliable results to clinicians and their patients.



Reference materials

Product code	Description	Amount
Vitamin D2 (Ergocalciferol)		
CDX-00022751-250	Vitamin D2	250 mg
CERV-024	Vitamin D2 (1.0 mg/ml)	1 ml
CERV-026	D3-Vitamin D2 (100 µg/ml)	1 ml
TRC-H995820	25-Hydroxyvitamin D2	1 mg
CERH-087	25-Hydroxyvitamin D2 (5 µg/ml)	1 ml
CERH-073	25-Hydroxyvitamin D2 (50 µg/ml)	1 ml
TRC-H995822	D6-25-Hydroxyvitamin D2	1 mg
CERH-090	1 α ,25-Dihydroxyvitamin D2 (5 µg/ml)	1 ml

Vitamin D3 (Cholecalciferol)		
CDX-00022774-100	Vitamin D3	100 mg
CERV-025	Vitamin D3 (1.0 mg/ml)	1 ml
TRC-C125700	25-Hydroxyvitamin D3	10 mg
CERH-086	25-Hydroxyvitamin D3 (5 µg/ml)	1 ml
CERH-083	25-Hydroxyvitamin D3 (100 µg/ml)	1 ml
TRC-C125702	D6-25-Hydroxyvitamin D3	0.5 mg
CERH-074	D6-25-Hydroxyvitamin D3 (50 µg/ml)	1 ml
REC-MS7112	D6-25-Hydroxyvitamin D3 (1 µg/ml)	2 ml
TRC-S211500	24R,25-Dihydroxyvitamin D3	1 mg
TRC-S211502	D6-24R,25-Dihydroxyvitamin D3	1 mg
TRC-C144500	1 α ,25-Dihydroxyvitamin D3	2.5 mg
CERH-089	1 α ,25-Dihydroxyvitamin D3 (5 µg/ml)	1 ml
TRC-C144502	D6-1 α ,25-Dihydroxyvitamin D3	0.5 mg
TRC-H995860	3-epi-25-Hydroxyvitamin D3	0.25 mg
TRC-H995862	D6-3-epi-25-Hydroxyvitamin D3	0.25 mg

Higher Order Reference Materials		
NIST-2972	25-Hydroxyvitamin D2 and D3 calibration solutions in ethanol (*5 of each)	10* x 1.2 ml
NIST-972	Vitamin D metabolites in frozen human serum (Levels 1-4) (25-Hydroxyvitamin D3, 25-Hydroxyvitamin D2 and 3-epi-25-Hydroxyvitamin D3)	4 x 1 ml

Matrix materials

Product code	Description	Amount
Serum Calibrators lyophilised		
25-Hydroxyvitamin D2, 25-Hydroxyvitamin D3		
REC-35013	25-Hydroxyvitamins D2 / D3 (Single point calibration)	5 x 2 ml
REC-MS7013	25-Hydroxyvitamins D2 / D3 (Level 0-3)	4 x 1 x 1 ml
	25-Hydroxyvitamin D2 (5 µg/ml)	1 ml
	25-Hydroxyvitamin D2 (50 µg/ml)	1 ml

Serum Control lyophilised		
25-Hydroxyvitamin D2, 25-Hydroxyvitamin D3		
REC-35080	25-Hydroxyvitamins D2 / D3, Level I	10 x 2 ml
REC-35081	25-Hydroxyvitamins D2 / D3, Level II	10 x 2 ml
REC-35082	25-Hydroxyvitamins D2 / D3, Level I, II	2 x 5 x 2 ml

We can also supply other vitamin D related materials.

Contact us for information on our solvents and additives for clinical and forensics applications:

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