

Vitamin D Metabolites in Frozen Human Serum

Art. ID	NIST-972a
Unit	4 x 1mL
Deliverydetails	No Dangerous Good /not restricted

Description

This Standard Reference Material (SRM®) is intended for use as an accuracy control in the critical evaluation of methods for determining the amount-of-substance concentration of vitamin D metabolites in human serum. This SRM can also be used as a quality assurance tool for assigning values to in-house control materials for these constituents. A unit of NIST-972a consists of four vials (Levels 1 through 4) of frozen serum with different concentration levels of 25-hydroxyvitamin D [25(OH)D] and 24R,25-dihydroxyvitamin D3 [24R,25(OH)2D3]. Each vial of NIST-972a contains approximately 1 mL of serum. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Level 1	25-Hydroxyvitamin D3	[19356-17-3]	28,1 ± 1,1	ng/g		
Level 1	25-Hydroxyvitamin D3	[19356-17-3]	28,8 ± 1,1	ng/mL		
Level 1	25-Hydroxyvitamin D3	[19356-17-3]	71,8 ± 2,7	nmol/L		
Level 1	3-epi-25-hydroxyvitamin D3	[73809-05-9]	1,77 ± 0,10	ng/g		
Level 1	3-epi-25-hydroxyvitamin D3	[73809-05-9]	1,81 ± 0,10	ng/mL		
Level 1	3-epi-25-hydroxyvitamin D3	[73809-05-9]	4,5 ± 0,2	nmol/L		
Level 1	24R,25-Dihydroxyvitamin D3	[40013-87-4]	2,60 ± 0,10	ng/g		
Level 1	24R,25-Dihydroxyvitamin D3	[40013-87-4]	2,66 ± 0,10	ng/mL		
Level 1	24R,25-Dihydroxyvitamin D3	[40013-87-4]	6,38 ± 0,23	nmol/L		
Level 2	25-Hydroxyvitamin D2	[21343-40-8]	0,79 ± 0,08	ng/g		
Level 2	25-Hydroxyvitamin D2	[21343-40-8]	0,81 ± 0,06	ng/mL		
Level 2	25-Hydroxyvitamin D2	[21343-40-8]	2,0 ± 0,2	nmol/L		
Level 2	25-Hydroxyvitamin D3	[19356-17-3]	17,7 ± 0,4	ng/g		
Level 2	25-Hydroxyvitamin D3	[19356-17-3]	18,1 ± 0,4	ng/mL		
Level 2	25-Hydroxyvitamin D3	[19356-17-3]	45,1 ± 1,0	nmol/L		
Level 2	3-epi-25-hydroxyvitamin D3	[73809-05-9]	1,25 ± 0,09	ng/g		
Level 2	3-epi-25-hydroxyvitamin D3	[73809-05-9]	1,28 ± 0,09	ng/mL		
Level 2	3-epi-25-hydroxyvitamin D3	[73809-05-9]	3,2 ± 0,2	nmol/L		

	D3			
Level 2	24R,25-Dihydroxyvitamin	[40013-87-4]	1,38 ± 0,05	ng/g
	D3			
Level 2	24R,25-Dihydroxyvitamin	[40013-87-4]	1,41 ± 0,05	ng/mL
	D3			
Level 2	24R,25-Dihydroxyvitamin	[40013-87-4]	3,39 ± 0,12	nmol/L
	D3			
Level 3	25-Hydroxyvitamin D2	[21343-40-8]	12,9 ± 0,3	ng/g
Level 3	25-Hydroxyvitamin D2	[21343-40-8]	13,2 ± 0,3	ng/mL
Level 3	25-Hydroxyvitamin D2	[21343-40-8]	32,0 ± 0,8	nmol/L
Level 3	25-Hydroxyvitamin D3	[19356-17-3]	19,4 ± 0,4	ng/g
Level 3	25-Hydroxyvitamin D3	[19356-17-3]	19,8 ± 0,4	ng/mL
Level 3	25-Hydroxyvitamin D3	[19356-17-3]	49,5 ± 1,1	nmol/L
Level 3	24R,25-Dihydroxyvitamin	[40013-87-4]	1,58 ± 0,06	ng/g
	D3			
Level 3	24R,25-Dihydroxyvitamin	[40013-87-4]	1,62 ± 0,06	ng/mL
	D3			
Level 3	24R,25-Dihydroxyvitamin	[40013-87-4]	3,88 ± 0,13	nmol/L
	D3			
Level 4	25-Hydroxyvitamin D3	[19356-17-3]	28,8 ± 0,9	ng/g
Level 4	25-Hydroxyvitamin D3	[19356-17-3]	29,4 ± 0,9	ng/mL
Level 4	25-Hydroxyvitamin D3	[19356-17-3]	73,4 ± 2,3	nmol/L
Level 4	3-epi-25-hydroxyvitamin	[73809-05-9]	25,4 ± 2,1	ng/g
	D3			
Level 4	3-epi-25-hydroxyvitamin	[73809-05-9]	26,0 ± 2,2	ng/mL
	D3			
Level 4	3-epi-25-hydroxyvitamin	[73809-05-9]	64,8 ± 5,4	nmol/L
	D3			
Level 4	24R,25-Dihydroxyvitamin	[40013-87-4]	2,58 ± 0,09	ng/g
	D3			
Level 4	24R,25-Dihydroxyvitamin	[40013-87-4]	2,64 ± 0,09	ng/mL
	D3			
Level 4	24R,25-Dihydroxyvitamin	[40013-87-4]	6,32 ± 0,22	nmol/L
	D3			