

## **24R,25-Dihydroxyvitamin D3 Calibration Solution**

Art. ID	NIST-2971
Unit	5 ampoules x 1 mL
Deliverydetails	Dry ice shipment UN1170 III E1

### Description

This Standard Reference Material (SRM) is intended for use in calibration of instruments and techniques used for the determination of 24R,25-Dihydroxyvitamin D3 [24R,25(OH)2D3]. A unit of NIST-2971 consists of five two-milliliter ampoules of ethanolic solution. Each ampoule contains approximately 1 mL of solution.

**What:** Ethanolic solution certified for the mass fraction value of 24R,25-Dihydroxyvitamin D3 [24R,25(OH)2D3].

**Why:** The vitamin D metabolite 25-hydroxyvitamin D (25OHD) is the serum biomarker measured to determine a person's vitamin D status. This metabolite is further metabolized in the body, to both active and nonactive forms, such as 24R,25(OH)2D3, and the levels of these compounds in patient samples have shown promise towards the indication of kidney disease and hypercalcemic diseases.

**Who:** Clinical researchers working towards the development of techniques for the determination of 24,25(OH)2D3 in serum.

**How:** This SRM is intended for the calibration of LC-MS and LC-MS/MS methods used for the determination of 24R,25(OH)2D3. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Mass Fraction	24R,25-Dihydroxyvitamin D3	[40013-87-4]	1,0544 ± 0,0190	µg/g		
Mass Concentration	24R,25-Dihydroxyvitamin D3	[40013-87-4]	1,9936 ± 0,0499	µmol/L		