



Vit-D-HPLC

25-hydroxyvitamin D3 and 25-hydroxyvitamin D2 in Human Serum

Vitamin D is one of the most important regulators for controlling phosphate and calcium metabolism in living organisms. The most important physiological functions of vitamin D is increasing the intestinal absorption of phosphate and calcium ions to involve in skeletal structure.

The most of Vitamin D circulating in the body is present in the 25-hydroxyvitamin D3 and 25-hydroxyvitamin D2 form. For this reason, this 25-hydroxymetabolites are used in the monitoring of vitamin D level. Vit D HPLC Analysis Kit allows the quantitative analysis of analytes 25-hydroxyvitamin D3 and 25-hydroxyvitamin D2 in serum and plasma samples. Components such as calibrator, reagent and mobile phase required for analysis are supplied with the kit

Accurate and Reliable HPLC Method
to Monitor Vitamin D status

Performance Data

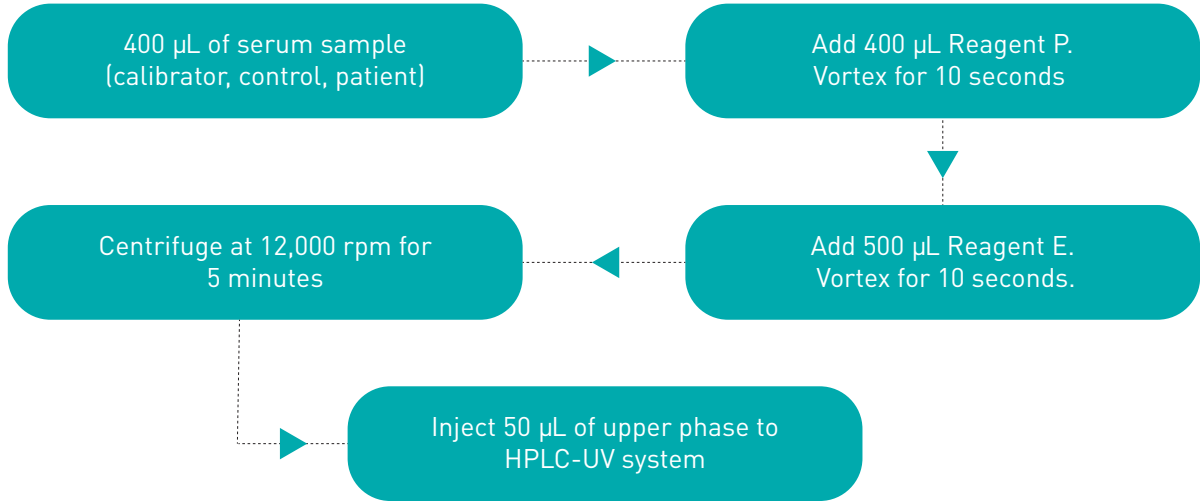
Linearity

Analyte	Linearity Range
25-hydroxyvitamin D3	8.1 - 250 ng/mL
25-hydroxyvitamin D2	7.5 - 250 ng/mL

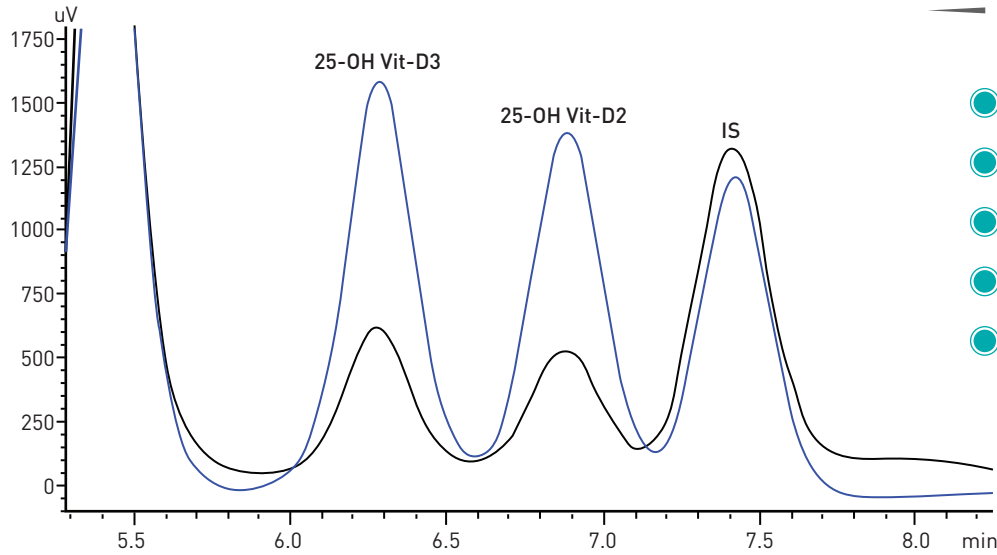
Reproducibility

Analyte	Intra-assay precision (%CV)	Inter-assay precision (%CV)
25-hydroxyvitamin D3	4,3 %	5,3 %
25-hydroxyvitamin D2	4,7 %	5,8 %

Sample Preparation



Sample Chromatogram



HPLC Parameters

- **Detection** - UV detector, 264nm
- **Column Oven** - 30°C
- **Flow Rate** - 0,7 mL/min
- **Injection Volume** - 50 µL
- **Analysis Time** - 8 Minutes

Ordering Information

Product Code	Product Name	Tests
BR140001	Vit D-HPLC Kit	100 Tests
BR140002	Vit D-HPLC Kit	500 Tests
BR140003	Vit D-HPLC Kit	1000 Tests
BR140003C1	Vit D-HPLC Kit Analytical Column	