Human Vitamin A,VA ELISA Kit

Product Code	CSB-E07889h
Abbreviation	VA
Protein Biological Process 1	Metabolism
Target Name	Vitamin A,VA
Alias	N/A
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma
Detection Range	0.625 ng/mL-10 ng/mL
Sensitivity	0.467 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Tag Info	quantitative
Protein Description	Competitive

Description

The CUSABIO human Vitamin A (VA) ELISA kit is used to quantitatively access Vitamin A in human serum and plasma samples. This competitive ELISA kit has a detection range of 0.625 ng/mL to 10 ng/mL with a sensitivity of 3.9 pmol/ml. The assay can be completed within 1 to 5 hours, requiring a sample volume of 50-100 µl. The detection is performed at a wavelength of 450 nm, following a quantitative principle. This ELISA kit has been utilized in various studies, demonstrating its reliability and reproducibility in detecting Vitamin A levels in human samples.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

	Intra-Assay Precision			Inter-Assay Precision		
Sample	1	2	3	1	2	3
n	20	20	20	20	20	20
Mean(ng/ml)	2.754	2.649	2.769	2.718	2.716	2.679
SD	0.027	0.028	0.027	0.037	0.034	0.031
CV(%)	6.502	6.667	6.534	8.805	8.084	7.283

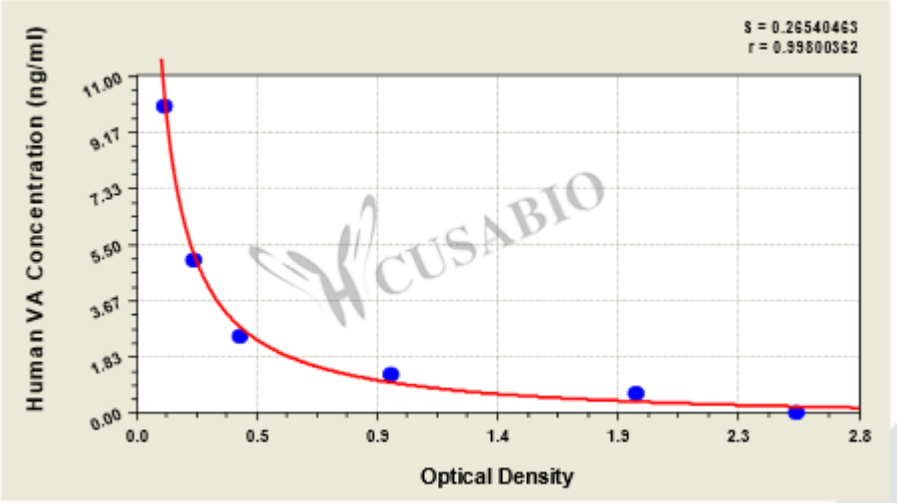
Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human Vitamin A in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:50	Average %	82
	Range %	80-99
1:100	Average %	91
	Range %	85-100
1:200	Average %	93
	Range %	88-105
1:400	Average %	95
	Range %	90-110

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average
10	0.118	0.130	0.124
5	0.229	0.237	0.233
2.5	0.406	0.418	0.412
1.25	0.996	0.978	0.987
0.625	1.867	1.979	1.923
0	2.530	2.534	2.532