



Bovine Vitamin D-binding protein(GC) ELISA kit

Product Code	CSB-EL009306BO
Abbreviation	GC
Protein Biological Process 1	Transport
Target Name	group-specific component (vitamin D binding protein)
Uniprot No.	Q3MHN5
Alias	DBP, DBP/GC, GRD3, VDBG, VDBP, vitamin D-binding alpha-globulin vitamin D-binding protein
Product Type	ELISA Kit
Immunogen Species	Bos taurus (Bovine)
Protein Biological Process 3	Transport
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.156 µg/mL-10 µg/mL
Sensitivity	0.039 µg/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	Signal Transduction
Gene Names	GC
Tag Info	quantitative
Protein Description	Competitive
Description	This Bovine Vitamin D-binding protein (GC) ELISA Kit was designed for the quantitative measurement of Bovine Vitamin D-binding protein (GC) protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 0.156 µg/mL-10 µg/mL and the sensitivity is 0.039 µg/mL.
Target Details	This protein belongs to the albumin gene family. It is a multifunctional protein found in plasma, ascitic fluid, cerebrospinal fluid and on the surface of many cell types. It binds to vitamin D and its plasma metabolites and transports them to target tissues.
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.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of bovine GC 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)
1:100	Average %	86
	Range %	82-92
1:200	Average %	93
	Range %	89-97
1:400	Average %	92
	Range %	84-96
1:800	Average %	95
	Range %	90-100

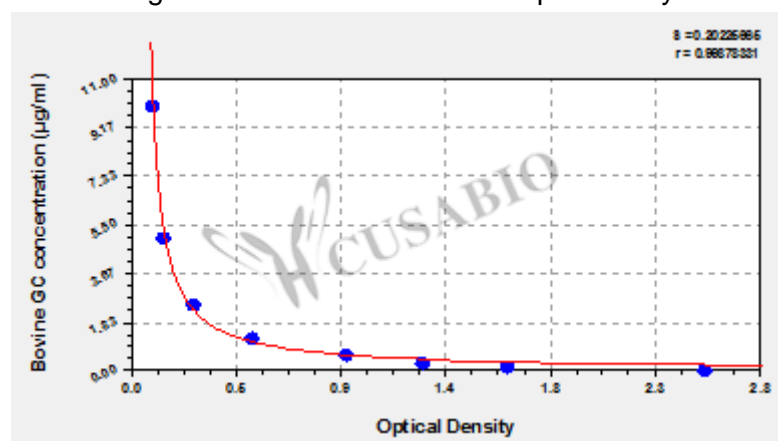
Recovery

The recovery of bovine GC spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	91	85-96
EDTA plasma (n=4)	103	100-106

Typical

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



µg/ml	OD1	OD2	Average
10	0.103	0.104	0.104
5	0.151	0.155	0.153
2.5	0.275	0.292	0.284
1.25	0.537	0.540	0.539
0.625	0.981	0.923	0.952
0.312	1.246	1.328	1.287
0.156	1.588	1.724	1.656
0	2.424	2.613	2.519