



Bovine Interleukin 2,IL-2 ELISA Kit

Product Code	CSB-E09810b
Abbreviation	IL2
Protein Biological Process 1	Immunity
Target Name	interleukin 2
Uniprot No.	P05016
Alias	IL-2, TCGF, lymphokine, T cell growth factor aldesleukin interleukin-2 involved in regulation of T-cell clonal expansion
Product Type	ELISA Kit
Immunogen Species	Bos taurus (Bovine)
Protein Biological Process 3	Adaptive immunity
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.8 pg/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	Immunology
Gene Names	IL2
Tag Info	quantitative
Protein Description	Sandwich

Description

This Bovine IL2 ELISA Kit was designed for the quantitative measurement of Bovine IL2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.8 pg/mL.

Target Details

This protein is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in



the immune response to antigenic stimuli.

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 IL-2 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)
1:1	Average %	85
	Range %	81-90
1:2	Average %	100
	Range %	97-103
1:4	Average %	101
	Range %	98-105
1:8	Average %	94
	Range %	86-98

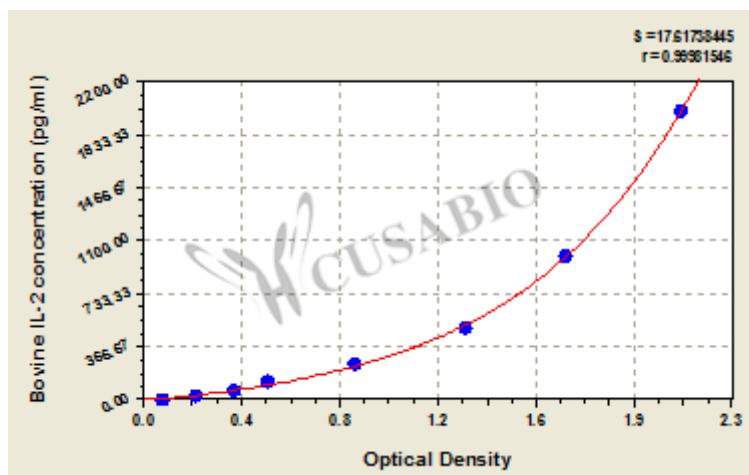
Recovery

The recovery of bovine IL-2 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)	94	89-97
EDTA plasma (n=4)	96	92-98

Typical

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



pg/ml	OD1	OD2	Average	Corrected
2000	2.151	2.099	2.125	2.040
1000	1.683	1.656	1.670	1.585
500	1.284	1.270	1.277	1.192
250	0.846	0.833	0.840	0.755
125	0.502	0.498	0.500	0.415
62.5	0.367	0.356	0.362	0.277
31.25	0.221	0.213	0.217	0.132
0	0.086	0.084	0.085	?

Msds

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