



Bovine Epithelial growth factor(EGF)ELISA Kit

Product Code	CSB-E17171B
Abbreviation	EGF
Target Name	Epithelial growth factor(EGF)
Alias	HOMG4, URG, beta-urogastrone epidermal growth factor
Product Type	ELISA Kit
Immunogen Species	Bos taurus (Bovine)
Sample Types	serum, plasma
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 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	Others
Gene Names	EGF
Tag Info	quantitative
Protein Description	Sandwich
Description	<p>The Bovine epithelial growth factor (EGF) ELISA Kit quantitatively measures bovine EGF in serum and plasma. It offers a detection range of 0.156 ng/mL-10 ng/mL and a low detection limit of 0.039 ng/mL. The assay operates on a Sandwich detection mechanism, which involves capturing the EGF protein between two layers of antibodies: a capture antibody coated on the plate and a detection antibody that binds to the protein, providing high specificity and sensitivity. The assay can be completed in 1-5 hours, uses 50-100 µL of sample, and detection is performed at 450 nm wavelength. The ELISA kit has been cited in experiments in several papers.</p>
Target Details	<p>Epidermal growth factor has a profound effect on the differentiation of specific cells in vivo and is a potent mitogenic factor for a variety of cultured cells of both ectodermal and mesodermal origin. The EGF precursor is believed to exist as a membrane-bound molecule which is proteolytically cleaved to generate the 53-amino acid peptide hormone that stimulates cells to divide.</p>
Product Precision	<p>Intra-assay Precision (Precision within an assay): CV%<8%</p> <p>Three samples of known concentration were tested twenty times on one plate to assess.</p>



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 EGF 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 %	94
	Range %	88-97
1:2	Average %	106
	Range %	100-109
1:4	Average %	90
	Range %	85-94
1:8	Average %	94
	Range %	90-97

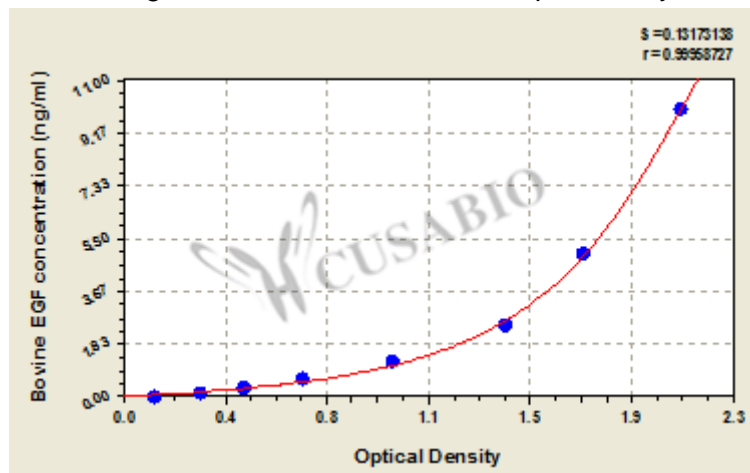
Recovery

The recovery of bovine EGF 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)	93	87-97
EDTA plasma (n=4)	94	89-97

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	Corrected
10	2.109	2.042	2.076	1.952
5	1.710	1.723	1.717	1.593
2.5	1.432	1.421	1.427	1.303
1.25	1.018	0.999	1.009	0.885
0.625	0.678	0.668	0.673	0.549
0.312	0.466	0.451	0.459	0.335
0.156	0.299	0.292	0.296	0.172
0	0.125	0.123	0.124	

Msds

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