Bovine α Lactalbumin,α-La ELISA Kit

Product Code	CSB-E13200B
Protein Biological Process 2	glyconeogenesis and glycometabolism
Abbreviation	LALBA
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	lactalbumin, alpha-
Uniprot No.	P00711
Alias	MGC138521, MGC138523, lactose synthase B protein
Product Type	ELISA Kit
Immunogen Species	Bos taurus (Bovine)
Protein Biological Process 3	Lactose biosynthesis
Sample Types	serum, plasma
Detection Range	0.054 ng/ml - 40 ng/ml
Sensitivity	0.054 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
Gene Names	LALBA
Tag Info	quantitative
Protein Description	Competitive
Description	This Bovine LALBA ELISA Kit was designed for the quantitative measurement of Bovine LALBA protein in serum, plasma. It is a Competitive ELISA kit, its detection range is 0.054 ng/ml - 40 ng/ml and the sensitivity is 0.054 ng/ml.
Target Details	This gene encodes alpha-lactalbumin, a principal protein of milk. Alpha-lactalbumin forms the regulatory subunit of the lactose synthase (LS) heterodimer and beta 1,4-galactosyltransferase (beta4Gal-T1) forms the catalytic component. Together, these proteins enable LS to produce lactose by transfering galactose moieties to glucose. As a monomer, alpha-lactalbumin strongly binds calcium and zinc ions and may possess bactericidal or antitumor

activity. A folding variant of alpha-lactalbumin, called HAMLET, likely induces apoptosis in tumor and immature cells.

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 α-La 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 %	80-90
1:2	Average %	93
	Range %	89-97
1:4	Average %	95
	Range %	90-100
1:8	Average %	90
	Range %	85-97

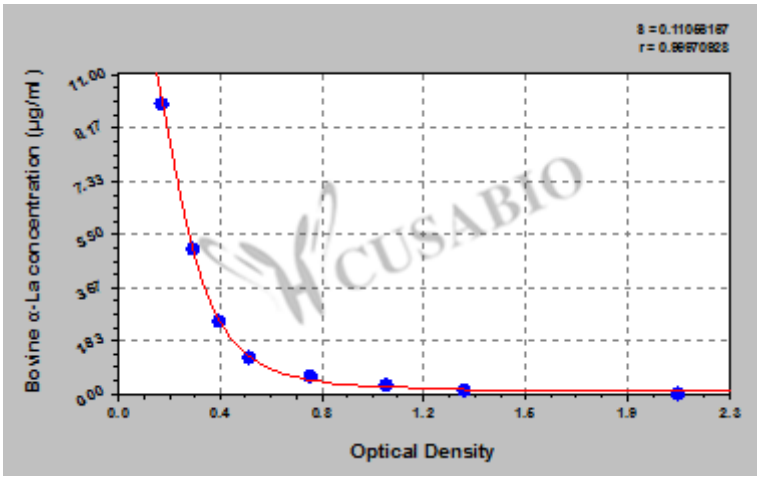
Recovery

The recovery of bovine α-La 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)	89	84-93
EDTA plasma (n=4)	103	99-108

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	0.186	0.180	0.183
5	0.302	0.291	0.2965
2.5	0.397	0.389	0.393
1.25	0.523	0.495	0.509
0.625	0.724	0.747	0.7355
0.312	1.013	1.024	1.0185
0.156	1.322	1.293	1.3075
0	2.163	2.052	2.1075