

Datasheet for ABIN456851
LALBA ELISA Kit



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Overview

Quantity:	96 tests
Target:	LALBA
Reactivity:	Cow
Method Type:	Sandwich ELISA
Detection Range:	0.156-10 µg/mL
Minimum Detection Limit:	0.156 µg/mL
Application:	ELISA

Product Details

Purpose:	This assay employs the quantitative sandwich enzyme immunoassay technique.
Sample Type:	Plasma, Serum, Milk
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Bovine LALBA.
Cross-Reactivity (Details):	Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between the target antigen and all analogues for other species. Therefore, cross reaction may still exist.
Sensitivity:	0.039 µg/mL
Components:	<ul style="list-style-type: none"> • Assay plate • Standard

Product Details

- Biotin-antibody (100 x concentrate)
- HRP-avidin (100 x concentrate)
- Biotin-antibody Diluent
- HRP-avidin Diluent
- Sample Diluent
- Wash Buffer (25 x concentrate)
- TMB Substrate
- Stop Solution
- Adhesive Strip

Target Details

Target:	LALBA
Alternative Name:	LALBA (LALBA Products)
Background:	Synonyms: MGC138521, MGC138523, lactose synthase B protein
UniProt:	P00711

Application Details

Application Notes:	<ul style="list-style-type: none">• The supplier is only responsible for the kit itself, but not for the samples consumed during the assay. The user should calculate the possible amount of the samples used in the whole test. Please reserve sufficient samples in advance.• Samples to be used within 5 days may be stored at 2-8°C, otherwise samples must be stored at -20°C (≤ 1 month) or -80°C (≤ 2 months) to avoid loss of bioactivity and contamination.• Grossly hemolyzed samples are not suitable for use in this assay.• If the samples are not indicated in the manual, a preliminary experiment to determine the validity of the kit is necessary.• Please predict the concentration before assaying. If values for these are not within the range of the standard curve, users must determine the optimal sample dilutions for their particular experiments.• Tissue or cell extraction samples prepared by chemical lysis buffer may cause unexpected ELISA results due to the impacts of certain chemicals.• Owing to the possibility of mismatching between antigens from another resource and antibodies used in this supplier's kits (e.g., antibody targets conformational epitope rather than linear epitope), some native or recombinant proteins from other manufacturers may not be recognized by this supplier's products.• Influenced by factors including cell viability, cell number and cell sampling time, samples from cell culture supernatant may not be recognized by the kit.• Fresh samples without long time storage are recommended for the test. Otherwise, protein degradation and denaturalization may occur in those samples and finally lead to wrong results.
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Application Details

Comment: Detection wavelength: 450 nm

Information on standard material:

Depending on the antigen to be detected, standards can be either native or recombinant protein. The recombinant proteins are being expressed in CHO cells in most cases. Please inquire for more information. The formulation of auxiliary material in the standard is considered proprietary information, however it does not contain any poisonous substance. Proclin 300 (1:3000) is used as preservative.

Information on reagents:

In most cases the stop solution provided is 1 N H₂SO₄. The formulation of wash solution is proprietary information. None of the components contain (sodium) azide, thimerosal, 2-mercaptoethanol (2-ME) or any other poisonous materials. For the sandwich method kits, the sample diluent, antibody diluent, enzyme diluent and standard all contain BSA.

Information on antibodies:

The antibodies provided in different kits vary in regards to clonality and host. Some antibodies are affinity purified, some are Protein A

Sample Volume: 100 µL

Assay Time: 1 - 4.5 h

Plate: Pre-coated

Protocol:

1. Prepare reagents, samples and standards as instructed.
2. Add 100µl standard or sample to each well. Incubate 2 hours at 37 °C.
3. Remove the liquid of each well, don't wash.
4. Add 100 µL Biotin-antibody (1x) to each well. Incubate 1 hour at 37 °C.
5. Aspirate and wash 3 times.
6. Add 100 HRP-avidin (1x) to each well. Incubate for 1 hour at 37 °C.
7. Aspirate and wash 5 times.
8. Add 90 µl TMB Sustrate to each well. Incubate 15-30 minutes at 37 °C. Protect from light.
9. Add 50 µL Stop Solution to each well. Read at 450 nm within 5 minutes.

Reagent Preparation:

- **Biotin-antibody (1×)** - Centrifuge the vial before opening.
Biotin-antibody requires a 100-fold dilution. The suggested dilution is 10µL of Biotin-antibody + 990µL of Biotin-antibody Diluent.
- **HRP-avidin (1×)** - Centrifuge the vial before opening.
HRP-avidin requires a 100-fold dilution. The suggested dilution is 10µL of HRP-avidin + 990µL of HRP-avidin Diluent.

- **Wash Buffer (1x)** - If crystals have formed in the concentrate, warm up to room temperature and mix gently until the crystals have completely dissolved. Dilute 20mL of Wash Buffer Concentrate (25x) into deionized or distilled water to prepare 500mL of Wash Buffer (1x).
- **Standard** - Centrifuge the standard vial at 6000-10000rpm for 30s.
Reconstitute the Standard with 1ml of Sample Diluent. Do not substitute other diluents. This reconstitution produces a stock solution. Mix the standard to ensure complete reconstitution and allow the standard to sit for a minimum of 15 minutes with gentle agitation prior to making dilutions.
Pipette 250µL of Sample Diluent into each tube. Use the stock solution to produce a 2-fold dilution series. Mix each tube thoroughly before the next transfer. The undiluted Standard serves as the high standard. Sample Diluent serves as the zero standard (0ng/mL).

Note:

- Kindly use graduated containers to prepare the reagent. Please don't prepare the reagent directly in the Diluent vials provided in the kit.
- Bring all reagents to room temperature (18-25°C) before use for 30 min.
- Prepare fresh standard for each assay. Use within 4 hours and discard after use.
- Making serial dilution in the wells directly is not permitted.
- Please carefully reconstitute Standards according to the instruction. Avoid foaming and mix gently until the crystals have completely dissolved. To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors are calibrated. It is recommended to suck more than 10µL when pipetting.
- It is recommended to use distilled water to prepare reagents and samples. Using contaminated water or container for reagent preparation will influence detection result.

Assay Precision:	<p>Intra-assay precision (precision within an assay): Three samples of known concentration were tested twenty times on one plate to assess precision.</p> <p>Inter-assay precision (precision between assays): Three samples of known concentration were tested in twenty assays to assess precision.</p> <ul style="list-style-type: none">• Intra-assay: CV% less than 8%• Inter-assay: CV% less than 10%
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Restrictions:	For Research Use only
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Handling

Precaution of Use:	The Stop Solution provided with this kit is an acid solution. Wear eye, hand, face and clothing protection when using this material.
Handling Advice:	<ul style="list-style-type: none">• The kit should not be used beyond the expiration date on the kit label.• Do not mix or substitute reagents with those from other lots or sources.• If samples generate values higher than the highest standard, dilute the samples with Sample

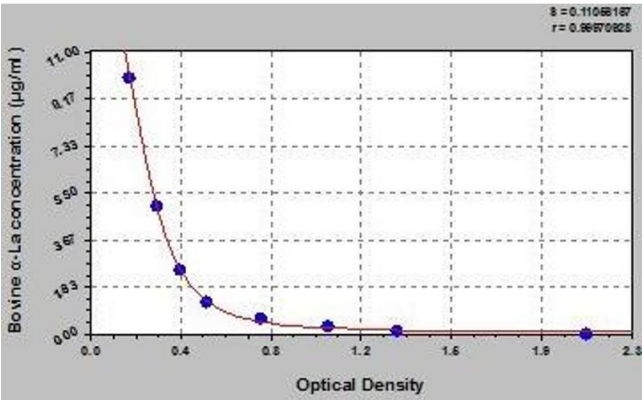
Handling

Diluent and repeat the assay.

- Any variation in Sample Diluent, operator, pipetting technique, washing technique, incubation time/temperature and kit age can cause variation in binding.
- This assay is designed to eliminate interference by soluble receptors, binding proteins and other factors present in biological samples. Until all factors have been tested in the Immunoassay, the possibility of interference cannot be excluded.

Storage:	4 °C/-20 °C
Storage Comment:	For unopened kit: All the reagents should be kept according to the labels on vials.
Expiry Date:	6 months

Images



ELISA

Image 1. Typical standard curve