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Datasheet for ABIN6956759 Insulin ELISA Kit

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Overview

Quantity:	96 tests
Target:	Insulin (INS)
Reactivity:	Pig
Method Type:	Competition ELISA
Detection Range:	61.7 pg/mL - 5000 pg/mL
Minimum Detection Limit:	61.7 pg/mL
Application:	ELISA
Product Details	
Purpose:	The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of insulin in porcine serum, plasma, tissue homogenates, cell lysates, cell culture supernates.
Sample Type:	Cell Culture Supernatant, Cell Lysate, Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Insulin (INS)
Sensitivity:	23.5 pg/mL
Components:	 Pre-coated, ready to use 96-well strip plate, flat buttom Plate sealer for 96 wells Reference Standard Standard Diluent

- Detection Reagent A
- Detection Reagent B
- Assay Diluent A
- Assay Diluent B
- Reagent Diluent (if Detection Reagent is lyophilized)
- TMB Substrate
- Stop Solution
- Wash Buffer (30 x concentrate)
- Instruction manual

Target Details

Target:	Insulin (INS)
Abstract:	INS Products
Pathways:	NF-kappaB Signaling, RTK Signaling, Positive Regulation of Peptide Hormone Secretion, Peptide
	Hormone Metabolism, Hormone Activity, Carbohydrate Homeostasis, ER-Nucleus Signaling,
	Regulation of Carbohydrate Metabolic Process, Feeding Behaviour, Autophagy, Negative
	Regulation of intrinsic apoptotic Signaling, Brown Fat Cell Differentiation, Positive Regulation of
	fat Cell Differentiation

Application Details

Comment:	Information on standard material:
	The standard might be recombinant protein or natural protein, that will depend on the specific
	kit. Moreover, the expression system is E.coli or yeast or mammal cell. There is 0.05% proclin
	300 in the standard as preservative.
	Information on reagents:
	The stop solution used in the kit is sulfuric acid with concentration of 1 mol/L. And the wash
	solution is TBS. The standard diluent contains 0.02 $\%$ sodium azide, assay diluent A and assay
	diluent B contain 0.01% sodium azide. Some kits can contain is BSA in them.
	Information on antibodies:
	The provided antibodies and their host vary in different kits.
Sample Volume:	50 µL
Assay Time:	2 h

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Application Details

Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards,
	2. Add 50µL standard or sample to each well.
	Then add 50µL prepared Detection Reagent A immediately.
	Shake and mix. Incubate 1 hour at 37 °C,
	3. Aspirate and wash 3 times,
	4. Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C,
	5. Aspirate and wash 5 times,
	6. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,
	7. Add 50µL Stop Solution. Read at 450 nm immediately.
Reagent Preparation:	1. Bring all kit components and samples to room temperature (18-25 °C) before use. If the kit
	will not be used up in one time, please only take out strips and reagents for present
	experiment, and leave the remaining strips and reagents in required condition.
	2. Standard - Reconstitute the Standard with 0.5 mL of Standard Diluent, kept for 10 minutes a
	room temperature, shake gently(not to foam). The concentration of the standard in the stocl
	solution is 5,000pg/mL. Please prepare 5 tubes containing 0.6 mL Standard Diluent and
	produce a triple dilution series according to the picture shown below. Mix each tube
	thoroughly before the next transfer. Set up 5 points of diluted standard such as 5,000pg/mL,
	1,666.7pg/mL, 555.6pg/mL, 185.2pg/mL, 61.7pg/mL, and the last EP tubes with Standard
	Diluent is the blank as Opg/mL.
	3. Detection Reagent A and Detection Reagent B - If lyophilized reconstitute the Detection
	Reagent A with 150µL of Reagent Diluent, kept for 10 minutes at room temperature, shake
	gently (not to foam). Briefly spin or centrifuge the stock Detection A and Detection B before
	use. Dilute them to the working concentration 100-fold with Assay Diluent A and B,
	respectively.
	4. Wash Solution - Dilute 20 mL of Wash Solution concentrate (30x) with 580 mL of deionized
	or distilled water to prepare 600 mL of Wash Solution (1x).
	TMB substrate - Aspirate the needed dosage of the solution with sterilized tips and do not dump the residual solution into the vial again.
	Note: 1. Making serial dilution in the wells directly is not permitted.
	2. Prepare standard within 15 minutes before assay. Please do not dissolve the reagents at
	37 °C directly.
	3. Detection Reagent A and B are sticky solutions, therefore, slowly pipette them to reduce the
	volume errors.
	4. Please carefully reconstitute Standards or working Detection Reagent A and B according to
	the instruction, and avoid foaming and mix gently until the crystals are completely dissolved
	To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors
	are calibrated. It is recommended to suck more than 10μ L for one pipetting.
	5. The reconstituted Standards, Detection Reagent A and Detection Reagent B can be used onl
	once.

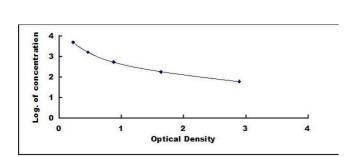
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	6. If crystals have formed in the Wash Solution concentrate (30x), warm to room temperature
	and mix gently until the crystals are completely dissolved. 7. Contaminated water or container for reagent preparation will influence the detection result.
	7. Contaminated water of container for reagent preparation will imidence the detection result.
Sample Preparation:	It is recommended to use fresh samples without long storage, otherwise protein degradation
	and denaturationmay occur in these samples, leading to false results. Samples should
	therefore be stored for a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤
	3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen
	samples should be slowly thawed and centrifuged toremove precipitates.
	If the sample type is not specified in the instructions, a preliminary test is necessary to
	determinecompatibility with the kit.
	If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a
	possibilityof causing a deviation due to the introduced chemical substance. The
	recommended dilution factor is for reference only.
	Please estimate the concentration of the samples before performing the test. If the values
	are not in therange of the standard curve, the optimal sample dilution for the particular
	experiment has to be determined.Samples should then be diluted with PBS (pH =7.0-7.2).
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of
	target were tested 20 times on one plate, respectively.
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level of
	target were tested on 3 different plates, 8 replicates in each plate.
	CV(%) = SD/meanX100
	Intra-Assay: CV < 10%
	Inter-Assay: CV < 12%
Restrictions:	For Research Use only
Handling	
Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and
	clothing protection when using this material.
Storage:	4 °C/-20 °C
Storage Comment:	1. For unopened kit: All reagents should be stored according to the labels on the vials. The
	Standard, Detection Reagent A, Detection Reagent B, and 96-well Strip Plate should be store
	at -20 °C upon receipt, while the other reagents should be stored at 4 °C.
	2. For opened kits: the remaining reagents must be stored according to the above storage
	conditions. In addition, please return the unused wells to the foil pouch containing the
	desiccant and seal the foil pouch with the zipper.

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Handling	
Expiry Date:	6 months
Publications	
Product cited in:	Nazhat, Kitahara, Kozuka, Mido, Sadawy, Ali, Osawa et al.: "Associations of periparturient
	plasma biochemical parameters, endometrial leukocyte esterase and myeloperoxidase, and
	bacterial detection with clinical and subclinical endometritis in postpartum" in: The Journal of
	veterinary medical science, Vol. 80, Issue 2, pp. 302-310, (2018) (PubMed).
	Alhussien, Kamboj, Aljader, Panda, Yadav, Sharma, Mohammed, Sheikh, Lotfan, Kapila,
	Mohanty, Dang: "Effect of tropical thermal stress on peri-implantation immune responses in
	cows." in: Theriogenology , Vol. 114, pp. 149-158, (2018) (PubMed).

Images



ELISA

Image 1. Typical standard curve

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