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Datasheet for ABIN365166 Oxytocin ELISA Kit

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Overview

Quantity:	96 tests
Target:	Oxytocin (OXT)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	8-400 µIU/mL
Minimum Detection Limit:	8 µIU/mL
Application:	ELISA

Product Details

Purpose:	For the quantitative determination of endogenic human oxytocin (OT) concentrations in serum, plasma, tissue homogenates.
Sample Type:	Serum, Plasma, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of human OT.
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:	10 µIU/mL
Components:	Assay plate (12 × 8 coated Microwells)

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	 Standard (freeze dried) Biotin-antibody (100 × concentrate) HRP-avidin (100 × concentrate) Biotin-antibody Diluent HRP-avidin Diluent Sample Diluent Wash Buffer (25 × concentrate) TMB Substrate Stop Solution Adhesive Strip (for 96 wells) Instruction manual
Material not included:	 Microplate reader capable of measuring absorbance at 450nm, with the correction wavelength set at 540nm or 570nm. An incubator which can provide stable incubation conditions up to 37°C ± 0.5°C. Squirt bottle, manifold dispenser or automated microplate washer. Absorbent paper for blotting the microtiter plate. 100mL and 500mL graduated cylinders. Deionized or distilled water. Pipettes and pipette tips. Test tubes for dilution.

Target Details

Target:	Oxytocin (OXT)
Alternative Name:	Oxytocin (OT) (OXT Products)
Target Type:	Hormone
Pathways:	Myometrial Relaxation and Contraction, Feeding Behaviour

Application Details

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 (\leq 1 month) or -80°C (\leq 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
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	 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.
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:	This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody
	specific for OT has been pre-coated onto a microplate. Standards and samples are pipetted into
	the wells with a Horseradish Peroxidase (HRP) conjugated antibody specific for OT. Following a

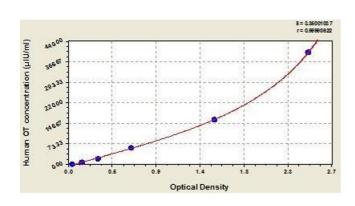
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	wash to remove any unbound reagent, a substrate solution is added to the wells and color
	develops in proportion to the amount of OT bound in the initial step. The color development is
	stopped and the intensity of the color is measured.
Sample Collection:	 Serum: Use a serum separator tube (SST) and allow samples to clot for two hours at room temperature or overnight at 4 °C before centrifugation for 15 minutes at 1000 × g. Remove serum and assay immediately or aliquot and store samples at -20 °C or -80 °C. Avoid repeated freeze-thaw cycles. Plasma: Collect plasma using EDTA or heparin as an anticoagulant. Centrifuge for 15 minutes at 1000 × g at 2-8 °C within 30 minutes of collection. Assay immediately or aliquot and store samples at -20 °C or -80 °C. Avoid repeated freeze-thaw cycles. Tissue Homogenates: Rinse 100 mg tissue with 1× PBS, homogenize in 1mL of 1× PBS and store overnight at -20 °C. After two freeze-thaw cycles to break the cell membranes, centrifuge the homogenates for 5 minutes at 5000 × g, 2-8 °C. Remove and assay the supernate immediately. Alternatively, aliquot and store samples at -20 °C or -80 °C. Centrifuge the sample again after thawing before the assay. Avoid repeated freeze-thaw cycles.
Calculation of Results:	Average the duplicate readings for each standard and sample and subtract the average zero standard optical density. Create a standard curve by reducing the data using computer software capable of generating a four parameter logistic (4-PL) curve fit. As an alternative, construct a standard curve by plotting the mean absorbance for each standard on the x-axis against the concentration on the y-axis and draw a best fit curve through the points on the graph. The data may be linearized by
	plotting the log of the target antigen concentration versus the log of the O.D. and the best fit lin can be determined by regression analysis. This procedure will produce an adequate but less precise fit of the data.
	If samples have been diluted, the concentration read from the standard curve must be multiplied by the dilution factor.
Assay Precision:	Intra-assay precision (precision within an assay): Three samples of known concentration were tested twenty times on one plate to assess precision.
	Inter-assay precision (precision between assays): Three samples of known concentration were
	tested in twenty assays to assess precision.
	Intra-assay: CV% less than 8%
	Inter-assay: CV% less than 10%
Restrictions:	For Research Use only

Handling

eye, hand, face and clothing
it label. ⁻ sources. ilute the samples with Sample washing technique, incubation eptors, binding proteins and ve been tested in the ed.
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Validation report #029595 for ELISA (ELISA)



ELISA

Image 1. Typical standard curve