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Oxytetracycline Elisa kit

96 Tests

Catalogue Number:SL0027Ot

Store all reagents at 2-8 °C

Valied Perid: six months

For samples:

**in feed, fish, shrimp, tissue, egg, honey, milk, serum and urine
sample.**

FOR RESEARCH USE ONLY !

NOT FOR THERAPEUTIC OR DIAGNOSTIC APPLICATIONS !

PLEASEREAD THROUGH ENTIRE PROCEDURE BEFORE BEGINNING

1. Purpose

This kit is Oxytetracycline Quantitative detection of residues in feed, fish, shrimp, tissue, egg, honey, milk, serum and urine sample.

2. Principle

This kit uses a direct competitive ELISA method in microplate coated with Oxytetracycline coupled antigen, adding Oxytetracycline standard or samples, free Oxytetracycline and pore strips Pre-coated Oxytetracycline conjugated antigen compete against Oxytetracycline antibody enzyme marker color with TMB substrate, stop solution added after the color from blue to yellow, with a microplate reader detection wavelength at 450nm, the sample absorbance value and Oxytetracycline content is inversely proportional to the sample through the standard curve Oxytetracycline content.

3. Kit composed

- (1) Pre-coated Oxytetracycline coupled antigen removable microtiter plates: 1 block (12 wells × 8 strips)
- (2) Oxytetracycline Standard: 6 bottles (1ml / vial), contents were: 0 ug/ml, 0.3 ug/ml, 0.9 ug/ml, 2.7 ug/ml, 8.1 ug/ml, 24.3 ug/ml.
- Anti- Oxytetracycline antibody conjugate: 1 bottle (6ml)
- (4) Color liquid A: 1 bottle (6ml)
- (5) Color liquid B: 1 bottle (6ml)
- (6) Stop Solution: 1 bottle (6ml), 2M sulfuric acid.
- (7) Sample Diluent: 1 bottle (10 ×, 6ml), used for sample dilution.
- (8) washing liquid concentrate: 1 bottle (20 ×, 20ml), for the washer
- (9) A description

4. The material needs without providing

(1) Equipment

- 1) Wavelength 450nm microplate reader.
- 2) Mill.
- 3) Graduated cylinder.
- 4) Oscillator.
- 5) Funnel.
- 6) Whatman No 1 filter paper or equivalent.
- 7) Pipette.

(2) Reagent

- 1) Deionized water or distilled water.
- 2) Methanol.

5. Notes

- Using the kit, please carefully read the instructions before
- Do not use expired kits.

—Kit Before use, the reagents to room temperature (25 ± 2 °C), recommend at least 2 hours back to temperature.

—Standard contains Oxytetracycline, use with caution, the operation should wear gloves.

—Stop solution contains sulfuric acid, used clothing to prevent skin burns and corrosion.

—Different standards, the sample used in the nozzle can not be mixed, otherwise it will affect the test results.

—Different lots of reagent kit not mix; different standard samples are not mixed with the tip, otherwise it will affect the experimental results.

—Diluted samples must be used in the sample kit diluent, otherwise it will affect the experimental results

—Avoid mixing foaming agent. Kit stored at $2 \sim 8$ °C, not frozen, not dried out of the microplate should be kept sealed

6. Working fluid

(1) Oxytetracycline standard solution: 0 ug/ml, 0.3 ug/ml, 0.9 ug/ml, 2.7 ug/ml, 8.1 ug/ml, 24.3 ug/ml.

(2) Concentrated washing solution: distilled water ratio of 1:20 (1 +19) dilution reserve

(3) Sample Diluent: distilled water ratio of 1:10 (1 +9) dilution reserve

(4) Color reaction: is standby to prevent direct rays of light

(5) Reaction termination solution: have spare

7. Sample handling procedures

(Sample during the extraction process, we must strictly follow operating instructions should be accurately dilute the extraction process, it will lead to inaccurate results, samples should be stored in a cool dark place and kept refrigerated)

(1) 10g crushed samples taken, add 20ml 70% methanol solution

(2) Strong 3-minute oscillations

(3) With Whatman No 1 filter paper

(4) take 100 apms 1 treatment of samples, join 400 apms 1 samples diluent

(5) take 50 μ l sample dilutions analysis (sample diluted times for 10) .

8. Elisa analysis steps

(1) Experimental Notes

1) Keep all reagents before the start of the experiment outside the box to fully restore to room temperature (25 ± 2 °C), about 2 hours. Warmed to room temperature (25 ± 2 °C) before removing the porous section, the excess pore re-sealed immediately in Article $2 \sim 8$ °C drying saving

Note: You must ensure the return to full temperature, or the accuracy of detection and accuracy.

2) immediately after use reagents stored back into the $2 \sim 8$ °C

3) Do not change the analysis program

- 4) Use the exact pipette
- 5) Operation once started, please do not interrupt any program
- 6) ELISA results of the reproducibility of a great extent depends on the operating program, strictly in accordance with the requirements of operation
- 7) To avoid cross-contamination, each standard and sample should be added using a different kind of tip
- 8) Do not add to the tip sample contact with the porous surface of the solution

(2) Analysis of the steps

- 1) Pre-numbered, labeled B₀, standard and sample location, detecting holes is recommended
- 2) Take the required amount of micropore (pore removable section), the excess back into the strip re-sealed and immediately save 2 ~ 8 °C
- 3) Sample dilution (10 ×), concentrated washing liquid (20 ×) was diluted into the working fluid
(distilled or deionized water to dilute)
- 4) Hole in the B₀ adding 50μl 0.0 ug/ml standard solution
- 5) Add 50μl of the standard holes in the standard solution
- 6) Hole in each sample by adding 50μl sample solution
- 7) In all holes by adding 50μl of Anti- Oxytetracycline antibody conjugate
- 8) Gently shake the plate for several seconds

(3) 37 °C temperature bath 30min

(Warm bath tap from time to time during the reaction plate, holes can reduce the error)

- 1) Get rid of holes in the liquid, wash with a lotion microplate 5 times, the last one should beat the absorbent paper to remove the holes in the liquid completely

(4) Reaction

- 1) The washing process is complete, immediately pipette in each pore of color to join the 50μl solution A, add 50μl color liquid B; mild shaking plate to mix thoroughly
- 2) 37 °C 10min warm bath
- 3) Each well add 50μl stop solution, mix
- 4) The absorbance at 450nm under the test results be read in 5min.

9. Calculation of results

(1) Quantitative Analysis

- 1) Obtained samples of each concentration of standard solution and the mean absorbance value (B) divided by a standard (0 standard) of the absorbance value (B₀) and multiplied by 100%, that percentage of the absorbance values. B-standard solution or sample solution, the average absorbance B₀-0ug/ml standard solution of the mean absorbance values
- 2) Oxytetracycline concentration on the value of X axis, Y axis is percentage of absorbance, the standard curve graph. Percentile according to the sample absorbance value can be obtained from the corresponding point on the curve the abscissa, that is, Oxytetracycline concentration on the values obtained shall be measured against the

number of medium Oxytetracycline concentration C (ug/ml)

3) After a pre-dilution of the sample, so the standard curve derived by multiplying the sample concentration dilution factor will again.

(2) Semi-quantitative determination

1) The visual semi-quantitative determination: first select an appropriate standard solution and

sample with the operation, according to the sample absorbance with the standard level of comparison, to determine the sample concentration is less than or greater than the standard value.

2) Semi-quantitative measurement instrument: first select an appropriate standard solution and

sample with the operation, according to the color depth of the sample compared with the standard

to determine sample concentration value is less than or greater than the standard value.

10 .specific

Material cross-reactivity.

Oxytetracycline.....100%

11. Kit Parameters

—This kit detection limit 0.3ug/ml.

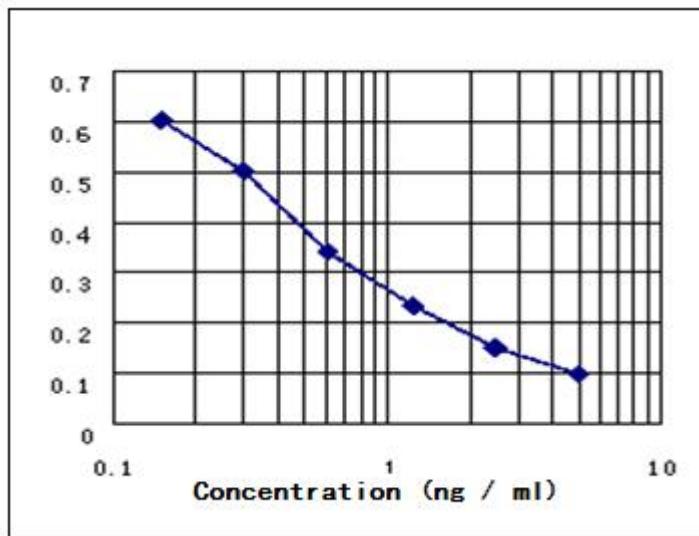
—B0 best value should be greater than 1.0 absorbance

—Absorbance plate kit error of less than 8%, less than 15% between the plates.

—With the manual extraction of tissue samples provided by more than 80% recovery rate.

12. Standard curve mode

Kit provided by the standard curve range 0.3ug/ml ~24.3ug/ml.



13 Analysis of restriction

This kit samples test positive should be another way, such as HPLC or GC / MS to be