

- **Standard 6 (8.1 ppb):** Add 24.3 μ l of 1.0 ppm high concentration standard into 8.1 ppb tube, mix well.
- **Standard 5 (2.7 ppb):** Add 1 ml of Standard 6 into 2.7 ppb tube, mix well.
- **Standard 4 (0.9 ppb):** Add 1 ml of Standard 5 into 0.9 ppb tube, mix well.
- **Standard 3 (0.3 ppb):** Add 1 ml of Standard 4 into 0.3 ppb tube, mix well.
- **Standard 2 (0.1 ppb):** Add 1 ml of Standard 3 into 0.1 ppb tube, mix well.
- **Standard 1 (0 ppb):** Reconstitution Buffer is as Standard Solution 1.

VIII. Sample Preparation:

Sample pretreatment:

- **Pretreatment of tissue (livestock, shrimp, fish) liver, eggs sample:**
Weigh 2 ± 0.05 g of homogenate samples into centrifuge tube. Then add 4 ml of 1% Trichloroacetic acid Solution to centrifuge tube. Shake well for 2 min, centrifuge at 4000 r/min for 10 min at room temperature. Take 250 μ l of the supernatant to another tube, and then add 750 μ l of Reconstitution Buffer to dissolve it. Take 50 μ l for analysis.
Note: Sample dilution factor: 8, minimum detection limit: 0.8 ppb.
- **Pretreatment of honey sample:**
Weigh 1 ± 0.05 g of honey samples into a centrifuge tube. Then add 2 mL of 1% Trichloroacetic acid Solution. Mix well for 2 min, centrifuge at 4000 r/min for 10 min at room temperature. Take 100 μ l of the supernatant to another tube. Add 1900 μ l of Reconstitution Buffer. Mix well for 30s. Take 50 μ l for analysis.
Note: Sample dilution factor: 40, minimum detection limit: 4 ppb.
- **Pretreatment of urine (swine) sample:**
Take urine samples centrifuge at 4000 r/min for 10 min at room temperature. Dilute clear urine samples with Reconstitution Buffer for 10 times. (Urine: Reconstitution Buffer (Solution 2) (V) = 1:9). Take 50 μ l for analysis.
Note: Sample dilution factor: 10, minimum detection limit: 1 ppb

IX. Assay Protocol:

Note: Bring all reagents and samples to room temperature 30 minutes prior to the assay. It is recommended that all standards and samples be run at least in duplicate. A standard curve must be run with each assay.

1. Add 50 μ l of each **standard or samples** into appropriate wells.
2. Add 50 μ l of Antibody **Working Solution**. Cover the plate with the sealer provided in the kit. Gently mix and incubate for 30 min. at 37°C.
3. Aspirate the solution from each well add 300 μ l of **1x wash buffer** to each well. Leave it for 30 sec, aspirate the solution from each well and pat it dry against clean absorbent paper. Repeat this wash step 5 times.
4. Add 100 μ l of **HRP Conjugate** to each well, incubate at 37°C for 30 min in dark.
5. Repeats wash Step 3.
6. Add 50 μ l of **Substrate Reagent A** to each well and then add 50 μ l of **Substrate Reagent B**. Cover with a plate sealer. Incubate for about 15 min at 37°C. Protect the plate from light.
Note: the reaction time can be shortened or extended according to the actual color change, but not more than 30 min.
7. Add 50 μ l of **Stop Solution** to each well. Note: adding the stop solution should be done in the same order as the substrate solution.
8. Read the absorbance in micro plate reader set to 450 nm reference wavelength 630 nm. This step should be performed within 10 min after stop reaction.

X. Calculation:

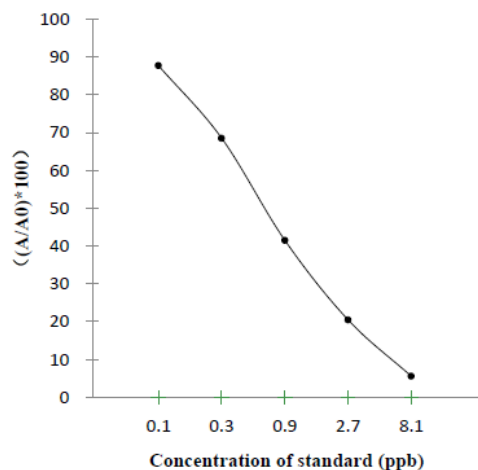
Create a standard curve by plotting the absorbance percentage of each standard on the y-axis against the log concentration on the x-axis to draw a semi logarithmic plot. Add average absorbance value of sample to standard curve to get corresponding concentration. If samples have been diluted, the concentration calculated from the standard curve must be multiplied by the dilution factor.

$$\text{Absorbance (\%)} = A/A_0 \times 100\%$$

A: Average absorbance of standard or sample

A₀: Average absorbance of 0 ppb Standard

Typical standard curve and data is provided below for reference only. A standard curve must be run with each assay





Concentration of standard (ppb)	OD-1	OD-2	Average OD
0	1.9579	1.9853	1.9716
0.1	1.7434	1.7148	1.7291
0.3	1.3048	1.3965	1.3507
0.9	0.8342	0.8020	0.8181
2.7	0.4018	0.4046	0.4032
8.1	0.1082	0.1102	0.1092

XI. RELATED PRODUCTS:

- Tylosin ELISA Kit (E4779)
- Norfloxacin ELISA Kit (E4776)
- Diazepam ELISA Kit (E4772)
- Olaquinox ELISA Kit (E4781)

FOR RESEARCH USE ONLY! Not to be used on humans.