

Mouse CPP(Copeptin) ELISA Kit

Cat: ELK3431

For research use only. Not intended for diagnostic use.

Sensitivity: 8.81 pg/mL

Detection Range: 31.25-2000 pg/mL

Specificity: This assay has high sensitivity and excellent specificity for detection of Mouse CPP. No significant cross-reactivity or interference between Mouse CPP and analogues was observed.

Please refer to the outer packaging label of the kit for the specific shelf life.

KIT Components

| | Quantity | | |
|--------------------------------|--------------------|---------------------|---------------------------|
| Reagents | 48T | 96T | Storage Condition |
| Pre-Coated Microplate | 6 strips x 8 wells | 12 strips x 8 wells | 4°C/-20°C |
| Standard (Lyophilized) | 1 vial | 2 vials | 4°C/-20°C |
| Biotinylated-Conjugate (100×) | 30 μL | 60 μL | 4°C/-20°C |
| Streptavidin-HRP (100×) | 60 μL | 120 μL | 4°C/-20°C |
| Standard/Sample Diluent Buffer | 10 mL | 20 mL | 4°C/-20°C |
| Biotinylated-Conjugate Diluent | 5 mL | 10 mL | 4°C/-20°C |
| HRP Diluent | 6 mL | 12 mL | 4°C/-20°C |
| Wash Buffer (25×) | 10 mL | 20 mL | 4°C/-20°C |
| TMB Substrate Solution | 6 mL | 10 mL | 4°C/-20°C (store in dark) |
| Stop Reagent | 3 mL | 6 mL | 4°C/-20°C |
| Plate Covers | 1 piece | 2 pieces | RT |



- 1. *If the kit is opened, Store the whole kit at 4°C. If the kit is not used up in 1 week. Store the Pre-Coated Microplate, Standard ,Biotinylated-Conjugate and Streptavidin-HRP at -20°C, the rest reagents at 4°C, please used up within 6 months.
 - *If the kit is not opened, store the whole kit: 4°C(short time storage, valid for 6 months); -20°C (long-term storage, valid for 1 year). Avoid repeated freeze-thaw cycles
- 2. Do not use the kit beyond the expiration date.
- 3. If the whole kit is stored at -20°C, place the kit at 4°C the day before the experiment.
- 4. After opening the package, please check that all components are complete.
- 5. The cap must be tightened to prevent evaporation and microbial contamination. The reagents volume is slightly more than the volume marked on labels, please use accurate measuring equipment and do not pour directly into the vial.

All kit components have been formulated and quality control tested to function successfully. Do not mix or substitute reagents or materials from other kits, detection effect of the kit will not be guaranteed if utilized separately or substituted.

Materials Required, Not Supplied

- 1. Microplate reader capable of measuring absorbance at 450 ± 10 nm.
- 2. High-speed centrifuge.
- 3. Electro-heating standing-temperature cultivator.
- 4. Absorbent paper.
- 5. Double distilled water or deionized water.
- 6. Single or multi-channel pipettes with high precision and disposable tips.
- 7. Precision pipettes to deliver 2 μL to 1 mL volumes.

Safety Notes

- 1. This kit is only used for lab research and development and should not be used for human or animals.
- Reagents should be regarded as hazardous substances and should be handled carefully and correctly.
- 3. Gloves, lab coats, and goggles should always be worn to avoid skin and eyes coming into contact with Stop Reagent and TMB. In case of contact, wash thoroughly with water.



This assay employs the competitive inhibition enzyme immunoassay technique. The microtiter plate provided in this kit has been pre-coated with Mouse CPP protein. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Mouse CPP. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Mouse CPP in the samples is then determined by comparing the OD of the samples to the standard curve.



Sample Collection and Storage

Serum - Samples should be collected into a serum separator tube. After clotting for 2 hours at room temperature or overnight at 4° C, and then centrifuging at $1000 \times g$ for 20 minutes. Assay freshly prepared serum immediately or store samples in aliquot at -20° C or -80° C for later use. Avoid repeated freeze-thaw cycles.

Plasma - Collect plasma using EDTA or heparin as an anticoagulant. Centrifuge samples at $1000 \times g$ and $2-8^{\circ}C$ for 15 minutes within 30 minutes of collection. Remove plasma and assay immediately or store samples in aliquot at $-20^{\circ}C$ or $-80^{\circ}C$ for later use. Avoid repeated freeze-thaw cycles.

Tissue homogenates - The preparation of tissue homogenates will vary depending upon tissue type.

- 1. Rinse the tissues in pre-cooled PBS to completely remove excess blood, and weigh them before homogenization.
- 2. Mince the tissues to small pieces and homogenize them in fresh lysis buffer (different lysis buffer needs to be chosen based on subcellular location of the target protein) (PBS can be used as the lysis buffer of most tissues) (w:v = 1:9, e.g. 900 μL lysis buffer is added in 100 mg tissue sample) with a glass homogenizer on ice (micro tissue grinders, too).
- 3. Ultrasound the obtained suspension with an ultrasonic cell disrupter until the solution is clear.
- 4. Then, centrifuge the homogenates for 5 minutes at $10000 \times g$ and collect the supernatant and assay immediately or store in aliquots at $\leq -20^{\circ}C$.

*Note: Tissue homogenates are recommended to be tested for protein concentration at the same time to obtain a more accurate concentration of the test substance per mg of protein. For protein detection, you can purchase our product: **BC016, BCA Protein concentration determination kit**.

Cell lysates - Cells need to be lysed before assaying according to the following directions.

- Adherent cells should be washed by pre-cooled PBS gently, and then be detached with trypsin, and collect them by centrifugation at 1000 × g for 5 minutes (suspension cells can be collected by centrifugation directly).
- 2. Wash cells 3 times in pre-cooled PBS.
- 3. Then, resuspend the cells in fresh lysis buffer with concentration of 10⁷ cells/mL. If it is necessary, the cells could be subjected to ultrasonication until the solution is clear.
- 4. Centrifuge at $1500 \times g$ for 10 minutes at $2-8^{\circ}C$ to remove cellular debris. Assay immediately or store in aliquots at $\leq -20^{\circ}C$.



Urine - Collect the first urine of the day (mid-stream) and discharge it directly into a sterile container.

Centrifuge to remove particulate matter, assay immediately or aliquot and store at \leq -20°C. Avoid repeated freeze-thaw cycles.

Saliva - Collect saliva using a collection device or equivalent. Centrifuge samples at $1000 \times g$ at $2-8^{\circ}C$ for 15 minutes. Remove particulates and assay immediately or store samples in aliquot at $\leq -20^{\circ}C$. Avoid repeated freeze-thaw cycles.

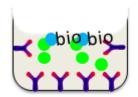
Cell culture supernatants and other biological fluids - Centrifuge samples at $1000 \times g$ for 20 minutes. Collect the supernatant and assay immediately or store samples in aliquot at -20° C or -80° C for later use. Avoid repeated freeze-thaw cycles.

Notes

- Samples to be used within 5 days may be stored at 4°C, otherwise samples must be stored at -20°C (≤ 1 month) or -80°C (≤ 2 months) to avoid loss of bio-activity and contamination. Avoid repeated freeze-thaw cycles.
- 2. Sample hemolysis will influence the result, so it should not be used.
- 3. When performing the assay, bring samples to room temperature.
- 4. If the concentration of the test material in your sample is higher than that of the Standard product, please make the appropriate multiple dilutions according to the actual situation (it is recommended to do preliminary experiment to determine the dilution ratio.

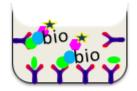


Summary



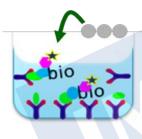
1. After the kit is equilibrated at room temperature, add 50 μ L of Standard Working Solution (gradually dilution refers to Reagent Preparation) or 50 μ L of sample to each well, immediately add 50 μ L of 1× Biotinylated-Conjugate Working Solution to each well, mix well, incubate at 37°C for 60 minutes.



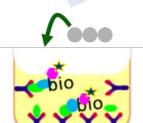


2. Discard the liquid in the plate, add 200 μ L 1× Wash Buffer to each well, and wash the plate 3 times. After pat it dry against clean absorbent paper, add 100 μ L 1× Streptavidin-HRP Working Solution to each well, incubate at 37°C for 60 minutes.





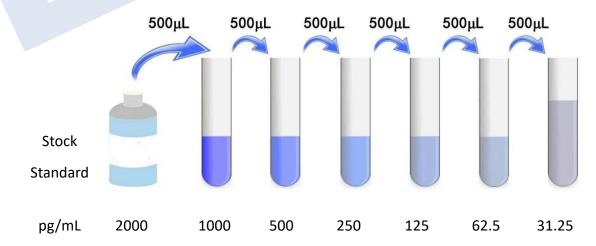
3. Discard the liquid in the plate, add 200 μ L 1× Wash Buffer to each well, and wash the plate 5 times. After pat it dry against clean absorbent paper, add 90 μ L TMB Substrate Solution to each well, incubate at 37°C for 20 minutes in the dark .



4. Add 50 μ L Stop Reagent to each well, shake plate on a plate shaker for 1 minute to mix. Record the OD at 450 nm immediately, calculation of the results.



- Bring all kit components and samples to room temperature (18-25°C) before use. Make sure all components are dissolved and mixed well before using the kit.
- 2. If the kit will not be used up in 1 time, please only take out strips and reagents for present experiment, and save the remaining strips and reagents as specified.
- 3. Dilute the 25× Wash Buffer into 1× Wash Buffer with double distilled water.
- 4. **Standard Working Solution** Centrifuge the Standard at 1000 × g for 1 minute. Reconstitute the Standard with 1.0 mL of Standard Diluent Buffer, kept for about 10 minutes at room temperature, shake gently (not to foam). The concentration of the standard in the stock solution is 2000 pg/mL. Please prepare 7 tubes containing 0.5 mL Standard Diluent Buffer and use the Diluted Standard to produce a double dilution series according to the picture shown below. To mix each tube thoroughly before the next transfer, pipette the solution up and down several times. Set up 7 points of Diluted Standard such as 2000 pg/mL, 1000 pg/mL, 500 pg/mL, 250 pg/mL, 125 pg/mL, 62.5 pg/mL, 31.25 pg/mL, and the last EP tubes with Standard Diluent is the **Blank** as 0 pg/mL. In order to guarantee the experimental results validity, please use the new Standard Solution for each experiment. When diluting the Standard from high concentration to low concentration, replace the pipette tip for each dilution. Note: the last tube is regarded as the **Blank** and **do not** pipette solution into it from the former tube.



- 5. $1 \times$ Biotinylated-Conjugate and $1 \times$ Streptavidin-HRP Working Solution Briefly spin or centrifuge the stock Biotinylated-Conjugate and Streptavidin-HRP before use. Dilute them to the working concentration 100-fold with Biotinylated-Conjugate Diluent and HRP Diluent, respectively. For example, 10 μ L of Streptavidin-HRP with 990 μ L of HRP Diluent.
- 6. **TMB Substrate Solution** Aspirate the needed dosage of the solution with sterilized tips and **do not**



Notes

- 1. After receive the kit, please store the reagents according to the instructions. The plates can be disassembled to single strips. Please use it in batches on demands.
- 2. The test tubes, pipette tips and reagents used in the experiment are all disposable and are strictly prohibited from being reused; otherwise the experiment results will be affected. Kit reagents of different batches cannot be mixed (except TMB, Washing Buffer and Stop Reagent).
- 3. Lyophilized Standards, Biotinylated-Conjugate, and Streptavidin-HRP are small in volume and may be scattered in various parts of the tube during transportation. Please centrifuge at 1000 × g for 1 minute before use. Then, carefully pipette 4-5 times to mix the Solution. Please configure the Standard, 1× Biotinylated-Conjugate and 1× Streptavidin-HRP Working Solution according to the required amount, and use the corresponding Dilution Solution, cannot be mixed used.
- 4. Bring all reagents to room temperature (18-25°C) before use. If crystals form in the concentrate (25×), it is a normal phenomenon. Heat it to room temperature (the heating temperature should not exceed 40°C), gently Mix until crystals are completely dissolved.
- 5. Prepare to dissolve Standard within 15 minutes before the test. This Standard Working Solution can only be used once. If the dissolved Standard is not used up, please discard it. The sample addition needs to be rapid. Each sample addition should preferably be controlled within 10 minutes. To ensure experimental accuracy, it is recommended to test duplicate wells, and when pipetting reagents, keep a consistent order of additions from 1 well to another, this will ensure the same incubation time for all wells.
- 6. During the washing process, the residual washing liquid in the reaction well should be patted dry on absorbent paper. Do not put the paper directly into the reaction well to absorb water. Before reading, pay attention to remove the residual liquid and fingerprints at the bottom, so as not to affect the microplate reader reading.
- 7. TMB Substrate Solution is light-sensitive, avoid prolonged exposure to light. Dispense the TMB Substrate Solution within 15 minutes following the washing of the microtiter plate. In addition, avoid contact between TMB Substrate Solution and metal to prevent color development. TMB is contaminated if it turns blue color before use and should be discarded. TMB is toxic, avoid direct contact with hands.



 Bacterial or fungal contamination of either samples or reagents or cross-contamination, between reagents may cause erroneous results.

Samples Preparation

- 1. Equilibrate all materials and prepared reagents to room temperature prior to use. Prior to use, mix all reagents thoroughly taking care not to create any foam within the vials.
- 2. The user should calculate the possible amount of the samples used in the whole test. Please reserve sufficient samples in advance.
- 3. 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.

Assay Procedure

- 1. Determine wells for Diluted Standard, Blank and Sample. Prepare 7 wells for Standard, 1 well for Blank. Add 50 μL of Standard Working Solution (please refer to **Reagent Preparation**) or Sample into each well (**Blank** is Standard Diluent). Then, add 50 μL of Biotinylated-Conjugate (1×) to each well immediately. Mix well, cover with the Plate Cover. Incubate for 1 hour at 37°C. Note: solutions should be added to the bottom of the micro ELISA plate well, avoid touching the inside wall and causing foaming as much as possible.
- 2. Pour out the liquid of each well. Aspirate the solution and wash with 200 μL of 1× Wash Solution to each well and let it sit for 1-2 minutes. After the liquid has been decanted, completely remove the remaining liquid from all wells by snapping the plate onto absorbent paper. Totally wash 3 times. Complete removal of liquid at each step is essential for good performance. After the last wash invert the plate and blot it against clean paper towels to remove excess liquid.
 - Notes: (a) When adding Washing Solution, the pipette tip should not touch the wall of the wells to a void contamination.
 - (b) Pay attention to pouring the washing liquid directly to ensure that the washing liquid does not contaminate other wells.
- 3. Add 100 μ L of Streptavidin-HRP Woking Solution (1×) to each well, cover the wells with the Plate Cover and incubate at 37°C for 60 minutes.
- 4. Repeat the aspiration, wash process for total 5 times as conducted in step 2.
- 5. Add 90 μL of TMB Substrate Solution to each well. Cover with a new Plate Cover. Incubate for 20



TMB Substrate Solution. Preheat the Microplate Reader for about 15 minutes before OD measurement. Avoid placing the plate in direct light.

- 6. Add 50 μ L of Stop Reagent to each well. The liquid will turn yellow by the addition of Stop Reagent. Mix the liquid by tapping the side of the plate. The insertion order of the Stop Reagent should be the same as that of the TMB Substrate Solution.
- 7. Wipe off any drop of water and fingerprint on the bottom of the plate and confirm there is no bubble on the surface of the liquid. Then, run the microplate reader and conduct measurement at 450 nm immediately.

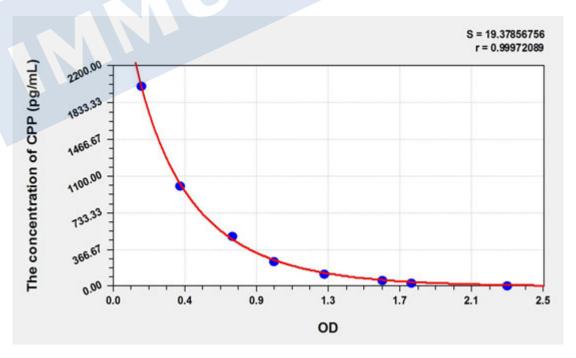
Note: Samples may require dilution (please refer to Sample Preparation section).



This assay employs the competitive inhibition enzyme immunoassay technique, so there is an inverse correlation between Mouse CPP concentration in the sample and the assay signal intensity.

Average the duplicate readings for each standard, control, and samples. Create a standard curve with the Mouse CPP concentration on the y-axis and absorbance on the x-axis. Draw the best fit straight line through the standard points and it can be determined by regression analysis. If samples have been diluted, the concentration read from the standard curve must be multiplied by the dilution factor. Using some plot software, for instance, curve expert.

| Concentration (pg/mL) | OD |
|-----------------------|-------|
| 2000 | 0.182 |
| 1000 | 0.411 |
| 500 | 0.715 |
| 250 | 0.959 |
| 125 | 1.253 |
| 62.5 | 1.587 |
| 31.25 | 1.761 |
| 0 | 2.316 |



Note: this graph is for reference only



Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.

Recovery

Matrices listed below were spiked with certain level of recombinant Mouse CPP and the recovery rates were calculated by comparing the measured value to the expected amount of Mouse CPP in samples.

| Matrix | Recovery range | Average |
|------------------------|----------------|---------|
| Serum (<i>n</i> = 5) | 87-99% | 93% |
| EDTA plasma (n = 5) | 93-107% | 100% |
| Heparin plasma (n = 5) | 87-95% | 91% |

Linearity

The linearity of the kit was assayed by testing samples spiked with appropriate concentration of Mouse CPP and their serial dilutions. The results were demonstrated by the percentage of calculated concentration to the expected.

| Sample | 1:2 | 1:4 | 1:8 | 1:16 |
|------------------------|---------|--------|--------|---------|
| Serum (<i>n</i> = 5) | 95-104% | 85-93% | 89-97% | 82-98% |
| EDTA plasma (n = 5) | 87-91% | 85-93% | 89-97% | 85-93% |
| Heparin plasma (n = 5) | 81-92% | 81-94% | 86-98% | 92-101% |



- 1. The kit may not be suitable for special experimental samples where the validity of the experiment itself is uncertain, such as gene knockout experiments.
- 2. Certain natural or recombinant proteins, including prokaryotic and eukaryotic recombinant proteins, may not be detected because they do not match the detection antibody and capture antibody used in this product.
- 3. This kit is not compared with similar kits from other manufacturers or products with different methods to detect the same object, so inconsistent test results cannot be ruled out.

Analysis of Common Problems and Causes of ELISA Experiment

High background/Non-specific staining

| Description of results | Possible reason | Recommendations and precautions |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| After termination, the whole plate results show a uniform yellow | The yellowing of the whole plate may be caused by wrong addition of other reagents ELISA plate was not washed sufficiently Incubation time too long Streptavidin-HRP contaminates the | Check the components and lot numbers of the reagents before the experiment, and confirm that all components belong to the corresponding kit. Reagents from different kits or different lot numbers cannot be mixed. Make sure that the same amount of Washing Solution is added to each microwell during the washing process. After washing, press the ELISA plate firmly on the absorbent paper to remove the residual buffer. Please strictly follow the steps of the manual When absorbing different reagents, the tips |
| or light color; or the Standard curve is linear but the background is | tip and TMB container or positive control contaminates the Pre-coated Microplate | should be replaced. When configuring different reagent components, different storage vessels should be used. Please use a pipette during operation. |
| too high | Biotinylated-Conjugate or Streptavidin-HRP concentration too high | Check whether the concentration calculation is correct or use after further dilution. |
| | Substrate exposure or contamination prior to use Color development time is too long The wrong filter was used when the absorbance value was read | Store in the dark at all times before adding substrate. Please strictly follow the steps of the manual. When TMB is used as the substrate, the absorbance should be read at 450 nm. |



| Description of results | Possible reason | Recommendations and precautions |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Mixed use of component reagents | Please read labels clearly when preparing or using |
| After the color development step, all wells of the ELISA plate are colorless; the positive control is not obvious | In the process of plate washing and sample addition, the enzyme marker is contaminated and inactivated, and loses its ability to catalyze the color developing agent | Confirm that the container holding the ELISA plate does not contain enzyme inhibitors (such as NaN ₃ , etc.), and confirm that the container for preparing the Wash Solution has been washed. |
| | Missing a reagent or a step | Review the manual in detail and strictly follow the operating steps |

Light color

| Description of results | Possible reason | Recommendations and precautions |
|------------------------------|---------------------------------------------------------|----------------------------------------|
| | The sample uses NaN ₃ | Samples cannot use NaN ₃ |
| | preservative, which inhibits the reaction of the enzyme | |
| The Standard is normal, the | The sample to be tested may | In case of doubt, please test again. |
| color of the sample is light | The standard is normal, the | |
| | color of the sample is lightnot | |
| | contain strong positive | |
| | samples, so the result may be | |
| | normal | |
| The visual result is normal, | Wrong filter used for | When TMB is used as the substrate, the |
| but the reading value of the | absorbance reading | absorbance should be read at 450 nm. |
| microplate reader is low | | |
| | | |



| Description of results | Possible reason | Recommendations and precautions |
|------------------------|-----------------------------------|----------------------------------------------------------------|
| | Insufficient incubation time | Timer accurate timing |
| | Insufficient color reaction | Usually 15 - 30 minutes |
| | The number of washings | Reduce the impact of washing, dilute the |
| | increases, and the dilution ratio | concentrated lotion and washing time according to |
| | of the concentrated lotion does | the manual, and accurately record the washing |
| | not meet the requirements | times and dosage. |
| | Distilled water quality problem | The prepared lotion must be tested to see if the pH |
| | | value is neutral. |
| | In the process of plate washing | Confirm that the container holding the ELISA plate |
| | and sample addition, the | does not contain enzyme inhibitors (such as NaN ₃ , |
| | enzyme marker is contaminated | etc.), confirm that the container for preparing the |
| All wells, including | and inactivated, and loses its | Washing Solution has been washed, and confirm |
| Standard and | ability to catalyze the color | that the purified water for preparing the Washing |
| Samples, are | developing agent. | Solution meets the requirements and is not |
| lighter in color | | contaminated. |
| IIgricer iii color | The kit has expired or been | Please use it within the expiration and store it in |
| | improperly stored | accordance with the storage conditions |
| | | recommended in the manual to avoid |
| | | contamination. |
| | Reagents and samples are not | All reagents and samples should be equilibrated at |
| | equilibrated before use | room temperature for about 30 minutes. |
| | Insufficient suction volume of | To calibrate the pipette, the tips should be |
| | the pipette, too fast discharge | matched, each time the tips should fit tightly, the |
| | of pipetting suction, too much | pipetting should not be too fast, and the discharge |
| | liquid hanging on the inner wall | should be complete. The inner wall of the tips |
| | of the tip or the inner wall is | should be clean, and it is best to use it once. |
| | not clean. | |



| Description of results | Possible reason | Recommendations and precautions |
|------------------------|---------------------------|-----------------------------------------------------------|
| | Incubation temperature | Keep the temperature constant to avoid the local |
| | constant temperature | temperature being too high or too low |
| | effect is not good | |
| | When adding liquid, too | When adding liquid, the tip should try to add liquid |
| | much remains on the | along the bottom of the medial wall of wells without |
| | medial wall of wells | touching the bottom of the hole. |
| | Reuse of consumables | The tips should be replaced when different reagents |
| Poor repeatability | | are drawn, and different storage vessels should be |
| Poor repeatability | | used when configuring different reagent components. |
| | The bottom of the | Be careful when operating, be careful not to touch the |
| | microwell is scratched or | bottom and wipe the bottom of the microplate to |
| | there is dirt | remove dirt or fingerprints. |
| | | Technical repetition of the same sample for 3 times, |
| | | including more than 2 approximate values. |
| | Cross-contamination | Try to avoid cross-contamination when adding samples |
| | during sample addition | |
| | Cross-contamination | When washing the plates by hand, the first 3 injections |
| | from manual plate | of the lotion should be discarded immediately, and the |
| | washing | soaking time should be set for the next few times to |
| The color of plate is | | reduce cross-contamination. |
| chaotic and irregular | Cross-contamination | Use a suitable absorbent paper towel when clapping |
| | when clapping | the plate, do not pat irrelevant substances into the well |
| | | of the plate, and try not to pat in the same position to |
| | | avoid cross-contamination. |



| Description of results | Possible reason | Recommendations and precautions |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | The liquid filling head of the plate washer is blocked, resulting in unsatisfactory liquid addition or large residual amount of liquid suction, resulting in the color of plate is chaotic and irregular | Unblock the liquid addition head, so that each well is filled with washing liquid when washing the plate and the residual amount should be small when aspirating liquid. |
| The color of plate is chaotic and irregular | Incomplete centrifugation of the sample, resulting in coagulation in the reaction well or interference of sediment or residual cellular components | Serum plasma should be fully centrifuged at 3000 rpm for more than 6 minutes |
| | The sample is stored for too long time, resulting in contamination. | Samples should be kept fresh or stored at low temperature to prevent contamination |
| | Incorrect preparation of Washing Solution or direct misuse of concentrated Washing Solution | Please configure according to the manual |