

## Sulfonamides residues (SAs) rapid test strip (Meat)

### 1. Specifications: 10 strips/bottle

### 2. Brief

This product is used for testing Sulfonamides residue in tissue(fish, shrimp, crab, poultry, livestock etc.) sample. The total test time only need 15~20 min, fast with high sensitivity.

### 3. Detection limit

|                                   |           |
|-----------------------------------|-----------|
| Sulfadiazine (SD or SDZ)          | 3-5ppb    |
| Sulfamerazine (SM <sub>1</sub> )  | 3-5ppb    |
| Sulfamonomethoxine (SMM)          | 1-2ppb    |
| Sulfadimoxine (SDM <sub>2</sub> ) | 12-15ppb  |
| Sulfabenzoyl (SML)                | 10-15ppb  |
| Sulfamethoxy pyridazine (SMP)     | 15-20ppb  |
| Sulfaquinoxaline(SQX)             | 10-15ppb  |
| Sulfamethoxazole (SMZ)            | 30-50 ppb |
| Sulfanethazine(SM <sub>2</sub> )  | 10-15ppb  |
| Sulfamethoxydiazine(SMD)          | 1-2ppb    |
| Sulfadimethoxine(SDM)             | 3-5ppb    |
| Sulfafurazole(SIZ)                | 45-50ppb  |
| Sulfisomidine                     | 8-10ppb   |
| Sulfamethizole (SMT)              | 45-50ppb  |
| Sulfaclozine (Esb3)               | 8-10ppb   |
| Sulfachloropyridazine (SCPA)      | 25-30ppb  |

### 4. Principle

The Sulfonamides rapid test dipstick is based on competitive inhibition immuno-chromatographic principle. In the flow process, Sulfonamides in the sample combined with Sulfonamides specific colloidal gold-labeled monoclonal antibody, Inhibit the combination between antibody and Sulfonamides-BSA conjugate on Test line of NC membrane, lead to the color change of Test line. When the concentration of Sulfonamides residue in sample is equal to or higher than detection limit, T line is obviously lighter than C line or T line has no color, the result is Positive. When the sample has no Sulfonamides residue or concentration lower than detection limit, T line is darker than C line, the result is Negative; No matter whether there is Sulfonamides residue in sample, C line will appear, it means the test is valid.

### 5. Contents

|   |                             |                  |
|---|-----------------------------|------------------|
| 1 | Sulfonamides test strips    | 10 strips/bottle |
| 2 | Manual                      | 1 piece          |
| 3 | Desiccant                   | 2 pieces/bag     |
| 4 | 10X Sample extract solution | 1 bottle         |

### 6. Solution preparation

**Sample extract solution:** Dilute 10X Sample extract solution with deionized water at 1:9. (1 part 10X Sample extract solution + 9 parts deionized water)

## 7. Sample preparation

### Tissue (fish, shrimp, crabs, pork, chicken, beef etc.)

Take  $3 \pm 0.1$ g homogenized tissue sample, add 3ml Sample extract solution, shake for 2min; centrifuge at 4000r/min for 5min, take up-layer solution for test.

## 8. Operation procedures

8.1 Return sealed test strips, micro-wells and sample into room temperature.

8.2 Take necessary strips and micro-wells on desk, use it in 1 hour.

8.3 Take 200ul of the test samples into the micro-wells, then repeatedly pump and suck for 5-6 times, mix the sample with the reagent in the micro-wells completely.

8.4 Incubate for 3min at room temperature (20-25°C), then insert the test dipsticks into the micro-wells with the "MAX" end fully dipped in to the mixture solution.

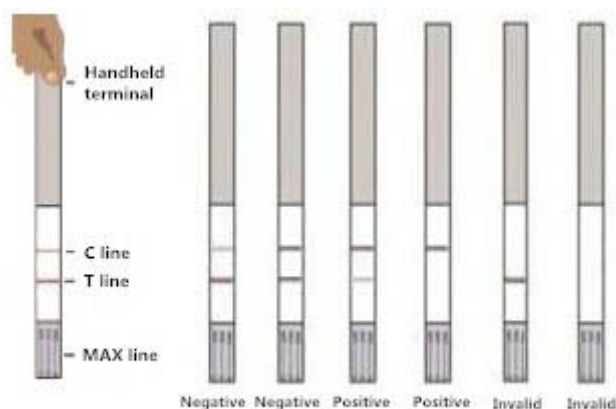
8.5 React at room temperature (20-25°C) for 5min, take out the test strips and read the result.

## 9. Test Result Interpretation

9.1 Negative: T line is darker than C line, or T line has same color with C line. It means there is no Sulfonamides residue in sample or the residue is lower than detection limit.

9.2 Positive: T line is obviously lighter than C line or T line is invisible. It means the Sulfonamides residue is equal to or higher than detection limit.

9.3 Invalidation: C line isn't seen wine red. It means the test card is out of efficacy, out of date or improper operation. Please run the test again using another package. If the invalid tests keep happening, please contact the supplier.



## 10. Specificity

There is no cross reaction with Streptomycin, Tetracycline and Quinolone etc..

## 11. Precautions

- 1) The test strips can be used only once at room temperature, do not use strips out of expiry date.
- 2) Do not touch the white membrane surface in the middle of test strip, avoid sunlight and fan blowing directly.
- 3) Tap water, distilled water and deionized water can not be as negative control.
- 4) Please contact the supplier for any questions.

## 12. Storage and expiry date

**Storage:** Store at 2-8 °C in dark, sealed, dry place, no frozen.

**Expiry date:** 12 months; date of production is on box.