

7th Edition, revised in April, 2017

(FOR RESEARCH USE ONLY, DO NOT USE IT IN CLINICAL DIAGNOSIS!)

AOZ(Furazolidone Metabolite) Rapid Test Kit

Catalog No: E-FS-C002

50T

This manual must be read attentively and completely before using this product.

If you have any problems, please contact our Technical Service Center for help.

Phone: 240-252-7368(USA)240-252-7376(USA)

Email: techsupport@elabscience.com

Website: www.elabscience.com

Please kindly provide us the lot number (on the outside of the box) of the kit for more efficient service.

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Test principle

This kit uses the principle of competitive-inhibition-GICA. It can detect AOZ (Furazolidone Metabolite)in samples, such as honey, tissue, liver, etc.After adding the sample solution into the sample well of detect card, AOZ of the sample solution combine with the gold-labelled antibody, so as to prevent the combining of gold-labelled antibody with AOZ conjugate on the cellulose membrane. When the concentration of AOZ in the sample solution is more than the detection limit, the detect line do not show color reactionand the result is positive. When the concentration of AOZ in the sample solution is less than the detection limit, the detect line shows purpleand the result is negative.

Technical indicator

Sensitivity:1ppb (ng/ml)

Note: The final detection limit of sample equal to the result of sensitivity multiply by dilution ratio of sample pretreatment.

Detection limit:honey/tissue/ casing/liver---0.5ppb.

Kits components

Item	Specifications
Detect card	50T/kit
Sample reconstituted solution	1 vial
Derivatization reagent	3 vials
Manual	1 copy

Other supplies required

Instruments: Homogenizer, Nitrogen blow-dry deviceOscillators, Centrifuge, Graduated pipette,

Balance(sensibility 0.01g)

High-precision transferpettor: Single channel(20-200μL, 100-1000μL) **Reagent:**Ethyl acetate, N-hexane,NaOH, concentratedHCl₂ K₂HPO₄•3H₂O

Sample pretreatment

1. Sample pretreatment Notice: Experimental apparatus should be clean, and the pipette should be disposable to avoid the experiment result be interfered by the contamination.

2. Reagent preparation

Solution 1:0.5M K₂HPO₄

Dissolve 11.4g K₂HPO₄•3H₂O to 100mL with deionized water

Solution 2: 1 M HCl solution

Dilute 8.6mL concentrated HCl to 100mL with deionized water

Solution 3: 1 MNaOH solution

Dissolve 4g NaOH to 100mL with deionized water

3. Sample pretreatment procedure:

Pretreatment of tissue sample (honey, tissue, casing, liver):

- (1) Weigh 2 ± 0.05 g of sample into EP tube, add 4mL of deionized water, 0.5mL of Solution 2 and 600μ L of derivatizationreagent, oscillate for 5min.
- (2) Incubate with water bath $(65^{\circ}C)$ for 30min.
- (3) Add 1mL of solution 1, 0.4mL of Solution 3 and 5mL of ethyl acetate, oscillate for 5min.
- (4) Centrifuge at 4000r/min at room temperature for 5 min.
- (5) Take 2.5mL of upper liquid to another tube, blow-dry in nitrogen or air.
- (6) Dissolve the residual with 1mL n-hexane, add 0.5 mL of reconstituted solution and oscillate for 30s. Centrifuge at 4000r/min at room temperature for 5 min.
- (7) Discard the upper n-hexane, takethe lower liquid to analyze.

Note: Sample dilution factor: 2, Detection limit: 0.5ppb

Experiment procedure

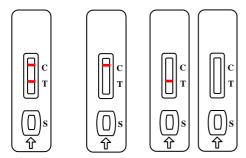
- 1. Tear the aluminum foil bag of the detect card and take out the detect card, and put it on a smooth, clean table.
- 2. Take the prepared clear sample supernatant with the matching straw, add 2-3 drops (about 60uL) of sample to the sample well (S) vertically and slowly.
- 3. Keep the detect card at room temperature for 8-10min, then judge the result.

Judgment of result

Negative: the control line region (C) and the test line region (T) both show red. It indicates the content of AOZ in the sample is lower than detection limit or the sample doesn't contain AOZ.

Positive: the control line region (C) shows red, the test line region (T) shows no color. It indicates the content of AOZ in the sample is higher than detection limit.

Invalid: the control line region (C) shows no color. It indicates operation process is wrong or the test card is invalid.



Negative Positive Invalid

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Notes

- 1. Do not use product out of date or in a broken aluminum foil.
- 2. The detect card should be adjusted to room temperature after removed from the refrigerator before opening. The opening detect card should be used as soon as possible so as not to be invalid because of moisture.
- 3. Avoid of contacting the whitemembrane at the middle of the sample well.
- 4. The droplets cannot be mixing to avoid the cross-contaminant.
- 5. The tested sample should be clear, no turbidity particle and no bacterial pollution, otherwise it is easy to result in abnormal phenomena such as obstruction, unobvious color, etc., which affect the judgment of the experiment result.

Storage and valid period

Storage: Store at $2-30^{\circ}$ C with dry condition.

Valid Period: 1 year, production date is on the packing box.