

Deoxynivalenol (DON) Quantitative Rapid Test Strip

Product Code: CUS-GS16C-N

1. Introduction

This product is widely used for on-site test on a large scale, because it is convenient to use, rapid to get result and high sensitivity. Antigen is fixed on nitrocellulose membrane test area, which is called T. Secondary antibody is fixed on control area, which is named C. Antibody conjugated with gold nanoparticles is fixed in microwell. You can get quantitative detection result by using it with handheld quantitative analyzer.

2. Detection Range

0-5000ppb

3. Kit Contains

Product Name	QTY
Quantitative Rapid Test Strip	96 Tests (8pcs/ vial, 12 vials)
Microwell	96 Tests (8pcs/ vial, 12 vials)
Sample Diluent	50mL x 2 bottles
ID Card	1pcs
Manual	1pcs

4. Required For Test but Not In Kit

- Mycotoxin LFD Analyzer – **Part # CUS-GS101**
- Mycotoxin LFD Incubator– **Part # CUSFY-1**
- Pipettor (20-200uL) – **Part # MBP5200-200U**
- Pipettor (100-1000uL) – **Part # MBP5200-1M**
- Tips 200uL – **Part # MB-P4300-RK**
- Tips 1000uL – **Part # CE-PTBP-1000**
- Centrifuge Tube 50ml – **Part #MBC2603-B**
- 50mL Graduated Cylinder – **Part # SC-55303**
- Pulverizer – **Part # CUS-CG-7120**
- Centrifuge – **Part # CUS-D1008E**
- Timer – **Part # TMW1**

5. Application

It is suitable to detect DON in cereals like corn, wheat, flour and etc.

6. Storage and Expiry Date

Store at 2-8°C.

Expiry Date is one year.

7. Preparation before Test

1) Sample Preparation

Equilibrate appropriate Quantitative Rapid Strip and Sample Diluents at room temperature. If you do not need to use 8 microwells, put back the rest and cover and seal well.

2) Incubator Preparation

Set at 30°C and lay down cover. Then incubate at steady 30°C for 10mins at least.

3) Handheld Analyzer Preparation

Start Analyzer for 5mins; Make sure Card Deck is well set; Insert ID card into Analyzer; Click “System Setup” and select “Assay Item Management”, at last click “Import”.p



1295 Morningside Avenue, Unit 16-18
Scarborough, ON M1B 4Z4 Canada
Phone: 416-261-4865 Fax: 416-261-7879
www.scigiene.com

8. Sample Preparation

8.1) Add 100g representative sample and then pulverize it and later pass through 20mesh sieve.

8.2) Add 4g screened sample into 50mL centrifugal tube. Add 40mL pure water and then shake it rigorously over five mins.

8.3) Centrifuge at 4000r/min for 5mins.

8.4) Add 50uL supernatant then add 950uL Sample Diluent. Mix Well.

P.S: If the test result beyond curve range, you would need to test sample again. Then you can dilute supernatant with 40% Methanol by 2-3 times. Then process step 6.4. Result=Test Result *dilution times.

9. Key Notes

Do not use test strip, microwell and Sample Diluent from other batches.

Load too much or too little sample will influence result.

Do not touch test strip display area (T/C Line). Avoid direct sunlight or direct blow from fan.

It is disposable. Do not use it again.

Please ask for replacement if you found product damaged or contaminated or expired useful life when you received product.

10. Test Procedure

1) Pull transverse baffle of Incubator to outermost place. Put required microwell on hole of incubator, and then put corresponding test strip on guide slot of incubator (please refer to Chart 1). (Better test ≤ 4 strips at one time)

2) Before adding the sample, turn the test solution upside down to make it even. Take 100uL test solution into microwell. Slowly blow over five times to mix well. Lay down Incubator Cover.

3) Push transverse baffle to let test strip fall into microwell to start reaction.

4) Take out test strip after reaction of five mins. Abandon sample pad.

5) Place the color development area of the test strip upward, the end of the sample pad facing in, and so the coloration end facing outward, and insert test strip into card deck. Click "Rapid Assay" and get result.

6) After finishing test, put the rest test strips and microwells back to bucket and well-sealed. Fasten the bottle of the rest sample diluent and put back into the kit, and stored at 2-8°C.

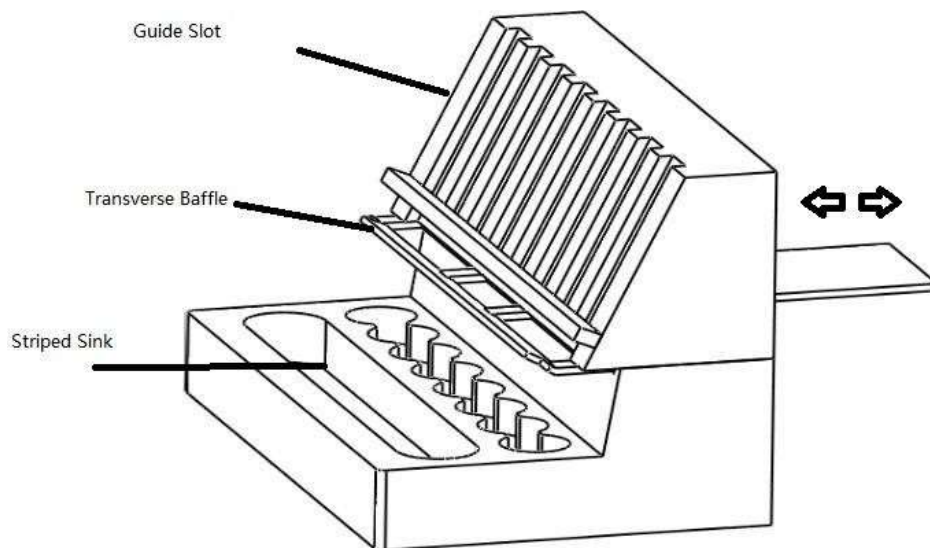


Chart 1: Incubator



1295 Morningside Avenue, Unit 16-18
Scarborough, ON M1B 4Z4 Canada
Phone: 416-261-4865 Fax: 416-261-7879
www.scigiene.com