

Manual of Deoxynivalenol (DON) Lateral Flow Test Strip

1. Product Code: WSK-G16B

2. Summary

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 microvoid.

T line is not colorful or its darkness is lighter than C line, when DON content in sample is above limit of detection, then result is positive; T line appears amaranth or its darkness is similar or darker than C line, when DON content in sample is below limit of detection, then result is negative.

3. Detection range

500-3000ppb (ug/kg)

4. Application

It is suitable to detect DON in cereals、 some feedstuff and finished feed.

5. Product Composition

Product Name	QTY	Remark
Lateral Flow Test Strip	8pcs/ section, 12 sections	-
Microvoid in which antibody conjugated with gold nanoparticles is fixed	8pcs/section, 12 sections	-
Sample Diluent	4bottles	50mL/bottle
Manual	1pcs	-

6. Storage

Store at 2-8°C.

7. Expiry Date

Expiry Date is 1 year.

Manufacture Date refers to information on package.

Take out Lateral Flow Test Strip and Sample Diluent and do not open them until they reach at room temperature. If you do not need to use 8microvoid once at a time, then put back the rest and cover and seal well.

8. Sample Pretreatment

1) Detection Range: 500-2000ppb

Take 4g pulverized sample into 50mL Centrifuge, then add 40mL pure water or distilled water. Mix well. Centrifuge at 4000rpm for 5minutes or vibrate it sufficiently and then stay still. Take 20uL supernatant, then add suitable amount of sample diluent according to detection range listed below.

Detection Range (ppb)	500	1000	1500	2000
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Amount of Sample Diluent (uL)	480	980	1480	1980
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2) Detection Range: 2500ppb

Take 4g pulverized sample into glass, then add 100mL pure water or distilled water. Mix well. Centrifuge at 4000rpm for 5minutes or vibrate it sufficiently and then stay still (You can also take 1.6g pulverized sample into 50mL Centrifuge, if you do not have suitable glass. Then add 40mL pure water). Take 20uL supernatant, then add 980uL sample diluent. Mix well.

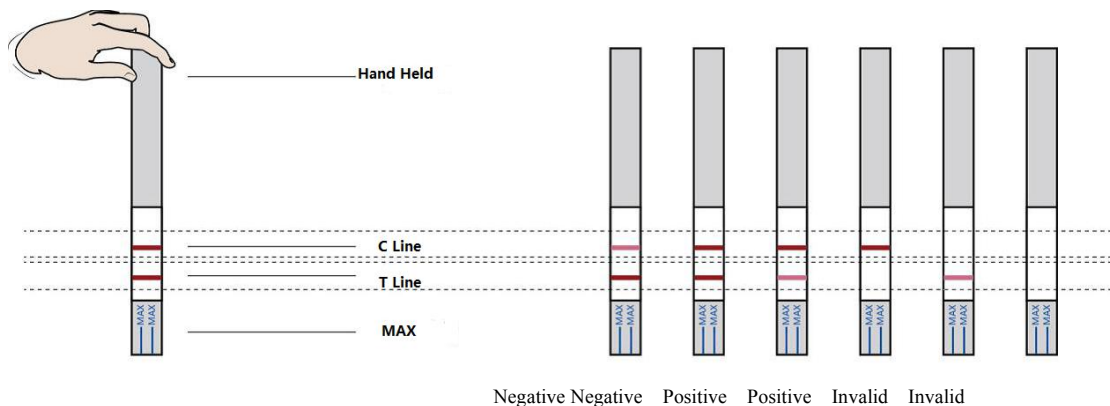
3) Detection Range: 3000ppb

Take 4g pulverized sample into glass, then add 120mL pure water or distilled water. Mix well. Centrifuge at 4000rpm for 5minutes or vibrate it sufficiently and then stay still (You can also take 1g pulverized sample into 50mL Centrifuge, if you do not have suitable glass. Then add 30mL pure water). Take 20uL supernatant, then add 980uL sample diluent. Mix well.

9. Test Procedure

- 1) After microvoid staying at room temperature, add 150uL solution to be tested into microvoid. Slowly blow for mixing well. Then wait for reaction for 3minutes.
- 2) Put the end of strip which tagged Max in microvoid.
- 3) After reaction of 5minutes, get result. Result is invalid after 10minutes.

10. Result Analysis



Negative (-): T line is similar or darker colorful than C line are, which means DON content in sample is below limit of detection.

Positive (+): T line is not colorful or C line is darker colorful, which means DON content in sample is above or equal to limit of detection.

Invalid Result: C line is not colorful or both lines (T&C) are not colorful, which means incorrect cooperation or invalid test strip. Please read the manual again and test with new test strip.

12. Note

- 12.1 Do not use test strip, microvoid and Sample Diluent from other batches.
- 12.2 Please strictly operate according to manual. Load too much or too few sample will influence result.
- 12.3 Do not touch test strip display area. Avoid direct sunlight or direct blow from fan.
- 12.4 It is useless to use water or other liquid as negative sample test control.



12.5 This product is disposable. Do not use it again.

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

12.7 Please note test result of this product is for reference only.