

DON-V INSTRUCTION GUIDE



VICAM[®]

A Waters Business

CULTIVATING SUCCESS THROUGH SCIENCE™

For more than 20 years, VICAM has been the global provider of choice for next-generation food safety technology and rapid mycotoxin test solutions.

The goal of securing the world's food supply requires knowledge, cooperation, and collaboration. To advance that objective, VICAM works closely with government regulatory agencies, international standards bodies, major food industry laboratories, and leading research institutions around the world. With a global scientific and distribution presence, VICAM has access to the latest research advances, industry expertise, and regulatory information needed to design solutions that maximize food safety and quality at every stage of the global food supply chain.

As the trusted partner of the agricultural industry, VICAM is proud to consistently deliver the superior products, responsive service, and individualized support for your industry-specific goals.





DON-V Kit (25 tests) 176002072

DON-V KIT CONTENTS

DON-V Strip Tests 100000246

DON-V Diluent, 6 mL 100000248

Micro-Pipette Tips, 100 μ L 600001109

Strip Test Vials, 1.5 mL 600000813

Filter Paper 600001106

Extraction Tubes, 40 mL 600000827

DON-V Barcode Set 715002690

DON-V Procedure Poster 715002561

Vertu Mycotoxin BEQ, 110V 176002078

Vertu Mycotoxin BEQ, 220V 176002079

BASIC EQUIPMENT CONTENTS

Vertu Reader, 110V & 220V 725000574

Vertu Bar-Code Reader 725000576

Printer, 110V & 220V 725000577

Vortex Mixer 23040

Digital Timer 64036

Micro-Pipettor, 100 μ L 600001108

Filter Funnel, 65 mm, (4 pack) 36020

Strip Test Vial Rack 600001107

Graduated Cylinder, 25 mL 600000937


Vertu Basic Instruction Guide 715002426

PRECISE...QUANTITATIVE...FAST

VICAM[®]

A Waters Business






VICAM's DON-V™ strip tests answer one of today's toughest food safety challenges with a new user-friendly lateral flow DON test that delivers accurate quantitative results in a matter of minutes.

DON is a toxic byproduct of several *Fusarium* mold species that commonly infect wheat, corn, barley, and other grains. Nicknamed vomitoxin for its severe effects on the gastrointestinal system, DON may also cause reduced feed intake, poor weight gain, and immunosuppression in susceptible livestock species, even at low concentrations (1 to 3 ppm). Concerns about acute DON toxicity, as well as the risks of chronic exposure, in animals and humans continue to fuel surveillance of grain crops worldwide.

DON-V strip tests combine the proven sensitivity and selectivity of VICAM's monoclonal antibodies to accurately detect and measure total DON in grain at levels as low as 0.2 ppm and as high as 5 ppm. The user-friendly sample preparation procedure saves time and materials, and the test takes 5 minutes* to develop. Digital readings are clearly displayed on the screen of the Vertu Reader™, eliminating any guesswork about the results.



**after extraction*

DON-V TEST PROCEDURE

SAMPLE EXTRACTION

1. Scan the test kit barcode for the type of sample and lot of strips that you are testing.
2. Weigh 5 g of ground sample[†] and place in an extraction tube.
3. Measure 20 mL of distilled water with a graduated cylinder and pour the water into the extraction tube.
4. Cover the extraction tube and vortex the mixture for 1 minute at max speed.
5. Filter the extract into a clean extraction tube.

[†] *Wheat, barley and corn can be used. Corn has its own barcode.*

PROCEDURE

1. Transfer 200 μ L of DON-V Diluent to the strip test vial.
2. Mix with 200 μ L of sample extract. Mix well by vortexing.
3. Transfer 100 μ L to the DON-V strip test by dropping (\sim 1 drop/second) vertically into the circular opening.
4. Insert the DON-V strip test into the Vertu reader (circular opening side in first).
5. Allow strip test to develop for 4 minutes.
6. Read results.



Strip Tests must be refrigerated, store at 4° - 8° C (39° - 46° F).

Strip, diluent and sample extract should be at room temperature before use.

Use in accordance with VICAM's testing procedure. To be used for testing food products only. Not to be ingested or applied to the skin.



BENEFITS

Fast screening – Results in less than 5 minutes*

Simple – No special training required

Precise – Limits of detection as low as 0.2 ppm

Convenient – Easily performed onsite or in the lab.

Accurate – Real-time data which can be printed.

** after extraction.*



A Waters Business

KEY LOCATIONS

Headquarters:

34 Maple Street
Milford, MA 01757
USA
Tel.: +1 800 338 4381
+1 508 482 4935
Fax: +1 508 482 4972

Orders:

1848 N. Deffer Drive
Nixa, MO 65714
USA
Tel.: +1 877 228 4244
+1 417 725 6588
Fax: +1 417 725 6102

www.vicam.com

Waters

THE SCIENCE OF WHAT'S POSSIBLE.™

Subject to change without notice.

© 2011 Waters Corporation. Waters, The Science of What's Possible, VICAM, Vertu, DON-V and Cultivating Success Through Science are trademarks of Waters Corporation.

The analytical methods presented in this data sheet have been researched and developed by VICAM to be used exclusively with DON-V products. These methods have been validated in the VICAM laboratories to perform to the specifications indicated in the DON-V procedures. The user assumes all risk in using DON-V procedures and products. VICAM makes no warranty of any kind, expressed or implied, other than that DON-V products conform to Waters' printed specification and quality control standards. Waters will, at its option, repair or replace any product, or part thereof, which proves to be defective in workmanship or material. VICAM's undertaking to repair or service such products is exclusive and is in lieu of all other warranties whether written, oral, expressed, or implied, including any implied warranty of merchantability or fitness for a particular purpose. VICAM shall have no liability for anticipated or lost profits or any loss, inconvenience or damage whether direct, indirect, incidental, consequential or otherwise, to person or property, or for strict liability or negligence arising from or in connection with the use of these assay procedures or DON-V products.