



CERTIFICATION

AOAC[®] Performance TestedSM

Certificate No.

011102

The AOAC Research Institute hereby certifies the test kit known as:

Delvotest[®] SP NT Visual

manufactured by

DSM Food Specialties

P. O. Box 1

2600 MA Delft

The Netherlands

This method has been evaluated in the AOAC[®] *Performance Tested MethodsSM* Program and found to perform as stated by the manufacturer contingent to the comments contained in the manuscript. This certificate means that an AOAC[®] Certification Mark License Agreement has been executed which authorizes the manufacturer to display the AOAC *Performance TestedSM* certification mark along with the statement - "THIS METHOD'S PERFORMANCE WAS REVIEWED BY AOAC RESEARCH INSTITUTE AND WAS FOUND TO PERFORM TO THE MANUFACTURER'S SPECIFICATIONS" - on the above mentioned method for a period of one calendar year from the date of this certificate (September 23, 2020 – December 31, 2021). Renewal may be granted at the end of one year under the rules stated in the licensing agreement.

A handwritten signature in black ink that reads "Scott Coates".

Scott Coates, Senior Director
Signature for AOAC Research Institute

November 28, 2020

Date

METHOD AUTHORS

Faragher John and Hennart Stéphen

SUBMITTING COMPANYDSM Food Specialties
Fleminglaan 1
2613AX Delft
The Netherlands**KIT NAME(S)**

Delvotest® SP NT Visual

CATALOG NUMBERSDelvotest® SPNT 100 #84231/13323/11605/13530
Delvotest® SPNT 5 Pack #8422
Delvotest® SPNT MCS #8421**INDEPENDENT LABORATORY**DairyOne
730 Warren Road
Ithaca, NY
USA**AOAC EXPERTS AND PEER REVIEWERS**Joe Boison¹, Jim Agin², Mark Mitchell³
¹ Canadian Food Inspection Agency, Saskatoon, SK, CANADA
² Q Laboratories, Cincinnati, OH, USA
³ University of Guelph, Guelph, Ontario, CANADA**APPLICABILITY OF METHOD**

Target drugs – Ampicillin, Amoxicillin, Cephapirin, and Penicillin G

Matrixes – raw commingled bovine milk

Performance claims - Delvotest® SP NT is a test system that is designed to test milk for the presence of antibacterial substances such as antibiotics.

ORIGINAL CERTIFICATION DATE

January 14, 2011

CERTIFICATION RENEWAL RECORD

Renewed annually through December 2021

METHOD MODIFICATION RECORD

1. November 2019 Level 1

SUMMARY OF MODIFICATION

1. Editorial and formatting changes.

Under this AOAC® Performance TestedSM License Number, 011102 this method is distributed by:

NONE

Under this AOAC® Performance TestedSM License Number, 011102 this method is distributed as:

NONE

PRINCIPLE OF THE METHOD (1)

Delvotest® SP NT is a test system that is designed to test milk for the presence of antibacterial substances such as antibiotics. The test is incubated in a water bath (or dry incubator). The test contains a solid and buffered agar medium including all required nutrients, a standardised number of spores of the test organism *Bacillus stearothermophilus* var. *calidolactis* and a purple colored pH indicator bromocresol purple. The principle of the test is based on the diffusion of possible inhibitory substances that may be present in the milk sample into agar. This reduces growth and acid production by the test organism and delays or prevents the agar from changing color from purple to yellow.

DISCUSSION OF THE VALIDATION STUDY (1)

Conclusions from the studies carried out by DairyOne:

1. *The detection sensitivity conforms to the claims*
2. *The test selectivity conforms to the claims*
3. *There is no influence of the test kit lot used*
2. *There is no influence caused by the age of the test kit lot used*
3. *Ruggedness Study: There is no influence when the volume of milk pipetted is done with an accuracy of +/-10%.*
4. *Effect of storage sample condition: after 2 weeks of storage at -16°C, a sample with penicillin might give negative results.*
5. *Drug Interference study: there is no interference that might lead to a false negative result.*
6. *There is no interference from somatic cells*
7. *There is no interference from bacteria*

Table 2 . Performance claims and validation results on the Delvotest® SP NT (1)

Claim	Accuracy claim	Results of the Validation Study
Detection sensitivity of Amoxicillin (ng/g)	2.5 ng/g	2.5 ng/g
Detection sensitivity of Ampicillin (ng/g)	3.0 ng/g	3.0 ng/g
Detection sensitivity of Cephapirin (ng/g)	5.8 ng/g	5.8 ng/g
Detection sensitivity of Penicillin G (ng/g)	1.5 ng/g	1.5 ng/g
Rate of False positive results (%)	0% (0/60)	0% (0/60)

REFERENCE CITED

1. John, Faragher and Stéphen, Hennart., Evaluation of the DSM Food Specialties Delvotest® SP NT Visual for Antibiotics in Milk, AOAC® *Performance Tested*SM certification number 011102.