



# CERTIFICATION

## AOAC Research Institute *Performance Tested Methods*<sup>SM</sup>

Certificate No.  
**011102**

The AOAC Research Institute hereby certifies the method 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 and certified according to the policies and procedures of the AOAC *Performance Tested Methods*<sup>SM</sup> Program. This certificate indicates an AOAC Research Institute Certification Mark License Agreement has been executed which authorizes the manufacturer to display the AOAC Research Institute *Performance Tested Methods*<sup>SM</sup> certification mark on the above-mentioned method for the period below. Renewal may be granted by the Expiration Date under the rules stated in the licensing agreement.

A handwritten signature in black ink, appearing to read "Bradley A. Stawick".

Bradley A. Stawick, AOAC Research Institute Senior Director

Issue Date

November 24, 2025

Expiration Date

December 31, 2026

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<b>METHOD NAME</b> Delvotest® SP NT Visual	<b>CATALOG NUMBERS</b> Delvotest® SPNT 100 #13323 Delvotest® SPNT 25 #13321 Delvotest® SPNT 10 #28299 Delvotest® SPNT 5 Pack #8422 Delvotest® SPNT MCS #8421
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<b>INDEPENDENT LABORATORY</b> DairyOne 730 Warren Road Ithaca, NY
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<b>APPLICABILITY OF METHOD</b> 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.
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<b>ORIGINAL CERTIFICATION DATE</b> January 14, 2011	<b>CERTIFICATION RENEWAL RECORD</b> Renewed annually through December 2026.
<b>METHOD MODIFICATION RECORD</b> 1. November 2019 Level 1 2. December 2022 Level 1 3. October 2024 Level 1	<b>SUMMARY OF MODIFICATION</b> 1. Editorial and formatting changes. 2. Editorial changes to update labeling. 3. Editorial changes.
Under this AOAC <i>Performance Tested Methods</i> <sup>SM</sup> License Number, 011102 this method is distributed by: NONE	Under this AOAC <i>Performance Tested Methods</i> <sup>SM</sup> 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 Cephalirin (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 Methods*<sup>SM</sup> certification number 011102.