Certificat

The Company:

DSM Food Specialities
Alexander Fleminglaan 1
2613 AX Delft - NETHERLANDS

Is authorized to affix the NF VALIDATION mark on the alternative analysis method cited below, in accordance with the NF VALIDATION general rules and the certification rules NF102 - Validation of alternative analysis methods (Application to the food industry):

Delvotest® T

Validated for the detection of antibiotic residues in raw cow's milk (individual and commingled)

Technical sheet reference's	**20231215 (valid until April 2027)** **20260220**

A summary of the validation tests is available in the validation summary report, which can be consulted on the website
https://nf-validation.afnor.org/en/

This decision certifies that the analytical method complies with the standards cited in the appendix and with the additional requirements after assessment by AFNOR Certification, as specified in the certification reference system. The essential certified characteristics are the " analytical performances" listed in the appendix to this certificate.

This certificate supersedes all previous certificates (last version dated 19-12-2023). This NF VALIDATION certificate, including its appendix, is valid until **February 3rd, 2028**. It is subject to the results obtained upon regular controls carried out by AFNOR Certification. Appropriate decision is made by AFNOR Certification in accordance with the NF VALIDATION general rules and certification rules NF102 - Validation of alternative analysis methods (Application to the food industry).

Managing Director of AFNOR Certification
Julien NIZRI

Analysis method	**Delvotest® T**
Production's site	DSM Food Specialities Test Center Turbineweg 10 2627 BP Delft - NETHERLANDS
Validation protocol	**NF VALIDATION - Validation of alternative analysis methods: Application to the food industry. Validation protocol for methods of detecting and quantifying traces of animal medicines in food products** - Requirements regarding the preliminary and inter-laboratory studies carried out by an expert laboratory. Revision 12 (September 2024).
Scope	Detection of a large spectrum of antibiotics in raw cow's milk (individual and commingled).
Restriction(s)	None.
Warning	None.
Other information	The validated scope of application includes the use of Delvo® Scan software version 5.08 with the EPSON V600 scanner and the Delvo ® Scan Accelarator Smart (DAS).

Performance characteristics

		Validation study conclusions
	False-positive rate (%)	0
	Cross-reactions (%)	
Detection capacity	CCβ Amoxicilline (µg/kg)	2,4
	CCβ Cloxacilline (µg/kg)	12
	CCβ Oxytétracycline (µg/kg)	96
	CCβ Chlortetracycline (µg/kg)	180
	CCβ Sulfadimethoxine (µg/kg)	48
	CCβ Sulfadiazine (µg/kg)	60
	CCβ Tylosin A (µg/kg)	42
	CCβ Erythromycin A (µg/kg)	240
	CCβ Dihydrostreptomycin (µg/kg)	960
	CCβ Cefalexin (µg/kg)	36
	CCβ Lincomycin (µg/kg)	264
Applicability	Matrix list	Amoxicilline, Cloxacilline, Oxytetracycline, Chlortetracycline, Sulfadimethoxine,Sulfadiazine, Tylosin A, Erythromycin A, Dihydrostreptomycin, Cefalexin Lincomycin
Robustesse	Critical factors identified	
Exactitude	Accuracy	
	Loyalty	

Please send any queries concerning the performances of the certified alternative method to AFNOR Certification.
(via the form available on the website https://nf-validation.afnor.org/en/ in the "contact" section").

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