Certificat

Certificate No.: **DSM 28/02-02/12**
Renewal decision dated: **15-12-2023**
Expiry date: **03-02-2028**

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**

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

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 26-09-2022). This NF VALIDATION certificate, included 2 pages, is valid until **3rd February 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 NF148 - Validation of alternative analysis methods (Application to water).

Managing Director
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 screening methods for the detection of antibiotic and other related molecules**. Requirements regarding validation study carried out by an expert laboratory. Revision (Juin 2017)	
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 http://nf-validation.afnor.org/ in the "contact" section").

This appendix cannot be reproduced without the document to which it relates.
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CERTIFICATION