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CERTIFICATE OF ACCREDITATION

This is to attest that

MILAN TESTING LABORATORY

CHOPIN # 2884 SAN JOAQUÍN
SANTIAGO, 8940683, CHILE

Testing Laboratory TL-1042

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date January 16, 2025



International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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MILAN TESTING LABORATORY

www.milantestinglaboratory.cl

Contact Name Alejandro Navarro

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Accredited to ISO/IEC 17025:2017

Effective Date January 16, 2025

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemistry – Food	Premix/ Animal Feed	Vitamin C monophosphate	INST-VIT C MONOF-03 PX/AL- HPLC UV Determination of Vitamin C Monosphosphate in Premix and Feed. Based on Determination of ascorbic acid equivalents (ROVIMIX® Stay-C®) in feeds and premixes. K. Schäfer, B. Nibali, V1.5. (18.05.2018) DSM
	Premix	Vitamin E Tocopherol acetate	INS-VIT E-02 PX-HPLC UV Determination of Vitamin E Acetate in Premix, Commercial Product and Food. Based on Determination of vitamin A and dl-α tocopheryl acetate in animal premixes. K. Schäfer, B. Nibali, E. Grossenbacher, V1.11. (16.09.2019) DSM
		Vitamin A Acetate	INS-VIT A-04 PX-HPLC UV Determination of Vitamin A Acetate in Premix and Commercial Product. Based on Determination of vitamin A and dl-α tocopheryl acetate in animal premixes. K. Schäfer, B. Nibali, E. Grossenbacher, V1.11. (16.09.2019) DSM
		Vitamin D3	INST –VIT D3-05 PX-HPLC UV Determination of Vitamin D3 in Premix and Commercial Product. Based on Determination of vitamin D3 in premix. K. Schäfer, V 1.2. (06.01.2016) DSM

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemistry – Food (cont'd.)		Vitamin B1 Vitamin B2	INST-VIT B1 B2-14 PX-HPLC FLUO/UV Determination of water-soluble vitamins B1 and B2 in premix and commercial product. Based on Determination of B vitamins (B1, B2, B6, folic acid, nicotinic acid, nicotinamide) in premixes. K. Schäfer, B. Kessler, S. Thommen, V1.5. (07.08.2012) DSM
	Animal Feed / Food / Premix	Astaxanthin	INST-ASTA-01 PX/AL HPLC VIS Determination of Astaxanthin in Fish Feed and Premix. Based on Determination of Carophyll Pink astaxanthin in dilutions, premix and fish feeds. J. Schierle, C.frey, V.Riegert, Version 1.9. (06.01.2016) DSM
	Animal Feed / Food	Vitamin A Vitamin D3 Vitamin E	INST-VIT A D3 E- 23 AL HPLC UV/FLU Determination of Vitamin A, D3 and E in Feed and Foods Based on Simultaneous Determination of Fat-Soluble Vitamins A, D and E and Pro-Vitamin D ₂ in animal Feed by Analysis one-step extraction and High-Performance Liquid Chromatography. H. Pian, M, Sheng. Journal of Chromatography A, 825 (1998) 127-133.
	Animal Feed / Food	Tryptophane	INST-TRIP-36 PX/AL-HPLC VIS Determination of Tryptophan in Feed and Food. Based on A.O.A.C Official Methods of Analysis 988.15(2005) 18a Edition (Tryptófano) Chapter 45 Journal of Chromatography (1982) pág. 499-502



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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Chemistry – Food (cont'd.)	Animal Feed / Food	Cysteine and Cystine	INST-CIS-35 PX/AL-HPLC VI Determination of cysteine and cysteine as cysteic acid Based on performic Acid Oxidation, Method 1, AOAC 994.12 Mac Donald et al, 1985
	Animal Feed / Food	<u>Amino acids profile:</u> Aspartic acid Glutamic acid Hydroxyproline Serine Glicine Histidine Arginine Taurine Threonine Alanine Proline Tyrosine Valine Methionine Isoleucine Leucine Phenylalanine Lysine	INST-AAL-18 AL-HPLC UV Determination of Amino acids. Based on a New Rapid High-Sensitivity Analysis of Aminoacids in Foods Type Samples (Bidleymeyer et al: J. Assoc. off Anal. Chem (Vol. 70 N°2, 1987) Pag. 241-247. Hydrolysis: A.O.A.C. official methods of analisis (1995) Alternativa III Supplement March Review 1998

