

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 088
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Accreditation No: LAB 088

Awarded to

**Quality Control Laboratory
FrieslandCampina Engro Pakistan, Sahiwal Plant
08-km, Pakpattan Road, Sahiwal Pakistan.**

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **14-05-2015** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2017**.

The accreditation requires regular surveillance, and is valid until **14-03-2024**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

10-08-2021
Date

Sd

Director General

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Testing Laboratory.

Accreditation Scope of FrieslandCampina Engro Pakistan Limited, Sahiwal
Lab, 8-km, Pakpattan Road, Sahiwal Pakistan

Permanent laboratory premises

Materials/Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
UHT Milk	Chemical Testing	pH	IDF Standard 115A: 1989 pH Meter Manual
	Chemical Testing	Total Solid i. Fat ii. Solid Non Fat (SNF)	Funke Gerber Manual Milk Processing Guide Series Volume 2 International Journal of Engineering and Applied Sciences PS: 4873-2008
	Chemical Testing	Fat	Milk Processing Guide Series Volume 2 Funke Gerber Manual PS: 4873-2008
	Chemical Testing	Total Protein	ISO 8968-2 IDF 20-1, IDF 20-2, IDF 20-3 and ISO 8968-4 IDF 20- 4, 2nd Edition 2016-04-01 with laboratory modification.
Milk Powder / Raw Milk / Pasteurized Milk/UHT Milk	Microbiological testing	Total plate Count	ISO 4833:2013 International Standard
Milk Powder	Microbiological testing	Salmonella	SO 6579-1:2017 Horizontal method for the detection of salmonella spp.
Milk Powder	Chemical Testing	Moisture Test	IS/ 16072 : 2012

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Materials/Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
Milk Powder	Microbiological testing	Eb's	IS/ISO 21528-2:2017E International Standard
Milk Powder	Microbiological testing	Yeast & Moulds	IS/ISO 6611:2004 International Standard
Milk Powder	Chemical Testing	Titratable Acidity	ADMI, Standards for grades of dry milk, bulletin 916, revised 1990 Laboratory modification
Milk Powder	Chemical Testing	Scorched Particles	ADPI, Bulletin 916. 1990(previously called ADMI, American Dry Milk Institute with Laboratory modification
Milk Powder	Chemical Testing	WPNI	ADMI, Standards for grades of dry milk, bulletin 916, revised 1990 Laboratory modification
Milk Powder	Chemical Testing	Ash	Association of Official Analytical Chemists (AOAC 930.30) with Laboratory modifications.
		Alkalinity	1987 Annual book of ASTM Standard, Vol 11.01 Water (I), pages 151-158 AOAC, 14 th Edition, 1984 EDTA titration method HI- 3811 SOP/QA/068

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Water	Hardness	Standard method for examination of water and waste water, Annual book of ASTM standard, Vol. 11.01, Water (I) EDTA titration method HI- 3812
	Total Suspended Solids (TSS)	Standard Method for the Examination of Water and Wastewater 23rd Edition (2017). Method: 2540D, pp: 4-5 with laboratory modification and validation.
	FOG	Standard Methods for the Examination of Water and Wastewater 23rd Edition (2017) Published, Method 5520 B, page: 2-4 with laboratory modification and validation.
	COD	Adaptation of USEPA 410.4 approved method for COD determination on surface waters and waste waters
	Conductivity	Conductivity meter manual (Sens Ion EC5) SOP/QA/208
	TDS	Conductivity meter manual (Sens Ion EC5) SOP/QA/208

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