

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

**Awarded to**

**Quality Assurance Laboratories  
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 **14-03-2027**.

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**

**08-07-2024**  
Date

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Director General

	<b>ACCREDITATION DOCUMENT</b>	<b>F-06/02</b> <b>Issue Date: 18/08/2020</b> <b>Rev. No: 09</b> <b>LAB 088</b>
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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, SMP & WMP	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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**Rev. No: 09**  
**LAB 088**

<b>Materials/Products tested</b>	<b>Testing field (e.g. environmental testing or mechanical testing)</b>	<b>Types of test/ Properties measured</b>	<b>Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference</b>
Milk Powder	Microbiological testing	Eb's	IS/ISO 21528-2:2017E International Standard
Milk & Milk Products	Microbiological testing	Enumeration of coliforms	ISO 4832:2006 The enumeration of coliforms
Milk Powder	Microbiological testing	Yeast & Moulds	IS/ISO 6611:2004 International Standard
Milk & Milk products	Microbiological testing	Enumeration of presumptive bacillus cereus(30°C)	ISO 7932: 2004 Microbiology of Feed & Animal Feeding Stuff – Horizontal Method for enumeration of presumptive bacillus cereus
Milk Powder (SMP & WMP)	Chemical Testing	Titrateable 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.

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Water		Alkalinity	1987 Annual book of ASTM Standard, Vol 11.01 Water (I), pages 151-158 AOAC, 14 <sup>th</sup> 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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Director