



ACCREDITATION DOCUMENT

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 065

Accreditation No: LAB 065

Awarded to

**SGS Agriculture, Food and Life (Lab),
Plot-04, Sector 24, Korangi Industrial Area, Near Shan Chowrangi,
Karachi, 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 **28-08-2013** 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 **25-08-2028**.

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

17-03-2026
Date

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Director General



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Testing Laboratory.

Accreditation Scope of **SGS Agriculture, Food and Life (Lab), Karachi, Pakistan.**

Permanent laboratory premises

Materials/Products tested*	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Standard specification/ Techniques/ equipment used
Cereal & cereal product, grains, feeds, meals, chocolate, milk & milk product, vegetable & vegetable product, mixed matrix, puree	Chemical Testing	Protein Content	SGS Inhouse Method AGR/Lab/SOP-99 method based on AOAC 2001.11 (2023) AND AACC 46-12, ISO 5983;2 (2009), ISO 20483 (2013)
Cereals & cereal product, grains, feeds, meals, fruits, oil seeds, dry fruits, spices	Chemical Testing	Deoxynivalenol	SGS in house method AGR/Lab/SOP-47 based on Czech J. Food Sci. 20;63-68
Cereals & cereal product, grains, feeds, oil seeds, nuts, dry fruits & product	Chemical Testing	Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Total Aflatoxin	SGS inhouse method AGR/Lab/SOP-51 based on ISO16050:2003
Cereals & cereal products	Chemical Testing	Moisture	ISO-712:2024, Gafta 2:2(2018)
Cereals, Grains	Chemical Testing	Protein Content	AOAC 2001.11(4.2.11) (2023)
Cereals, Grains and pulses & by products	Chemical Testing	Ash	ISO-2171:2023
Cheese	Chemical Testing	Moisture Content	AOAC 948.12(2023)
Cheese	Chemical Testing	Fat	AOAC 933.05(2023)
Chilli and spices	Chemical Testing	Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Total Aflatoxin	ASTA 24.2
Chillies, Spices, Sauces and food items	Chemical Testing	Pungency as the sum of Nondihydrocapsaicin, Capsaicin and Dihydrocapsaicin	SGS Inhouse method based on AOAC 995.03
Corn	Chemical Testing	Moisture Content	ISO6540:2021

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Cosmetics (viscous, or liquid) except heavily colored and adhesive matrix	Chemical Testing	Density	SGS In-house method
Cosmetics products	Chemical Testing	PH	SGS Inhouse method based PS 3228-2017, PS 3509-2018 & PS 4986-2017
Feed/Meal	Chemical Testing	Crude Fiber	ISO 6865: 2000
Feeds and meals except oil seed meal	Chemical Testing	Fat	Gafta 3:0-2018, ISO 6492:1999
Feeds, Meals	Chemical Testing	Ash	GAFTA 12:0(2018), ISO 5984:2022, AOAC 942.05(2023), AACC 08-03.01
Fishery products fish meal and Fish meat	Chemical Testing	TVBN(Total volatile basic nitrogen)	Pearson 9th edition
Flour, white flour, whole grain, products made from plants, seeds, fruits, milk, rice, cereal crops, meat products, meat extract, non alcoholic beverages and sea food products	Chemical Testing	Ash	FD-TA-002_V5
Food	Chemical Testing	pH	SGS inhouse test method
Food	Chemical Testing	Iron	SGS Inhouse method based on AOAC 2015.01
Food	Chemical Testing	SulfurDioxide as Sulfite	SGS Inhouse method based on AOAC962.16
Food	Chemical Testing	Vitamin C	SGS inhouse FD-VI-007_v2 Based on food control 12 (2001) and AOAC 2016 Appendix F, p9
Food and agri products	Chemical Testing	Fatty Acid Profile	SGS Inhouse method based on AOAC (2016) 996.06 /AOCS official method Ce 2-66 AOAC (2016) 2012.13 AOCS Ce 1e-91
Food and feeding stuff	Chemical Testing	Vitamin A (Retinol)	SGS inhouse RSTS-FD-VI_008 based on BS EN 12823-1:2014

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Food and feeding stuff	Chemical Testing	Carbohydrates	By calculation based on Food analysis 4th edition 2010
Foods	Chemical Testing	Total fat	SGS Inhouse method FD-FO-001_V1 based on AOAC(2016) 954.02, 922.06, 989.05, 995.19
Liquid and less viscous Food samples	Chemical Testing	Density	SGS Inhouse Density meter
Liquid milk	Chemical Testing	Moisture Content	AOAC 925.23(2023)
Liquid milk	Chemical Testing	Ash	AOAC 945.46(2023)
Meals / Feeds except oil seed meals	Chemical Testing	Moisture	GAFTA 2:1(2018), ISO 6496:2022, AACC 44- 19.01
Milk	Chemical Testing	Fat	AOAC 989.05(2023)
Milk powder	Chemical Testing	Moisture Content	BIS 16072
Milk powder	Chemical Testing	Ash	AOAC 930.30(2023)
Milk powder	Chemical Testing	Fat	AOAC 932.06(2023)
Oil and Fat	Chemical Testing	FFA/ Acid Value	AOAC 940.28(2023)
Oil and Fat	Chemical Testing	Peroxide Value	AOAC 965.33(2023)
Oil and Fat	Chemical Testing	Iodine Value	AOCS Cd 1d-25
Oil seed meal	Chemical Testing	Moisture	ISO 771:2021
Oil seeds meals	Chemical Testing	Fat	ISO 734 1:2006
Oil seeds&Fats	Chemical Testing	Free Fatty Acid	ISO 660:2015

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Red chili, black pepper, spices	Chemical Testing	Total Aflatoxin	USDA-FGIS Aflatest Fluorometer Instruction manual VICAM Method no. 4.28
Rice syrup, Rice protein, dairy, cereal, confectionary , spice mix, dessert mix, Sea food	Chemical Testing	Lead	SGS Inhouse method based on AOAC 2015.01
Rice syrup, Rice protein, dairy, cereal, confectionary , spice mix, dessert mix, Sea food	Chemical Testing	Cadmium	SGS Inhouse method based on AOAC 2015.01
Rice syrup, Rice protein, dairy, cereal, confectionary , spice mix, dessert mix, Sea food	Chemical Testing	Mercury	SGS Inhouse method based on AOAC 2015.01
Rice syrup, Rice protein, dairy, cereal, confectionary , spice mix, dessert mix, Sea food	Chemical Testing	Arsenic	SGS Inhouse method based on AOAC 2015.01
Sugar	Chemical Testing	Moisture	ICUMSA GS 2/1/3/9-15(2007)
Sugar	Chemical Testing	Ash	ICUMSA, GS 1-10 (1998)
Sugar	Chemical Testing	ICUMSA Color 9	ICUMSA GS 2-9 (2024)
Sugar	Chemical Testing	ICUMSA Color 10	ICUMSA GS 2-10 (2024)
Sugar	Chemical Testing	Polarization	ICUMSA GS 2-1 (2022)
Sugar	Chemical Testing	ICUMSA Color 8	ICUMSA GS 2/38 (2011)
Wheat, wheat flour	Manual (Chemical) Testing	Gluten Content manual (wet)	AACC 38-10.01
Wheat, wheat flour	Chemical Testing	Gluten Content mech. (wet)	AACC 38-12.02
Wheat, wheat flour	Chemical Testing	Gluten Content mech. (dry)	AACC 38-12.02
Wheat, wheat flour	Chemical Testing	Gluten Index	AACC 38-12.02
Wheat, wheat flour	Chemical Testing	Falling Number	ISO 3093:2009

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Food and feeding stuff	Molecular Biology Testing	Total Aflatoxin	Elisa kit method based on Celer Afla kit (HU0040051)
All type of Food/Feed /Fabric	Molecular Biology testing	GMO Analysis	ISO-21569-2005 (Qualitative)
Cereal products, Dairy, oil and oil based products and powder drinks	Molecular Biology Testing	Vitamin D	Elisa kit method
Cereals	Molecular Biology testing	Zearalenone	Veratox for zearalenone (Kit Method Neogen) Product no. 8110
Cereals	Molecular Biology testing	DNA typing/ Authentication	(Agilent publication, 2007) Bligh H.F., IJFST, 2000, 35;257-265
Cereals & cereal product, grains, feeds, meals, fruits, oil seeds, dry fruits, spices	Molecular Biology testing	Ochratoxin	Veratox for Ochratoxin(kit method Neogen) Product no. 8610
Cereals & cereal product, grains, feeds, oil seeds, nuts, dry fruits & product	Molecular Biology testing	Total Aflatoxin	Veratox for Aflatoxin quantitative
Cotton	Molecular Biology Testing	Screening of organism GMOs in cotton & textile.	IWA-32: 2019 (Qualitative)
Dairy Products	Molecular Biology testing	Aflatoxin M1	Veratox Aflatoxin M1(Kit method Neogen) Product no. 8019
Food and its supplements and multivitamin tablets and capsules and dairy products	Molecular Biology Testing	Vitamin B9	Elisa kit method based on Sensi Spec kit (HU0030402)
Food and its supplements and multivitamin tablets and capsules and dairy products	Molecular Biology Testing	Vitamin B12	Elisa kit method based on Sensi Spec kit (HU0030400)
Cereals	Molecular Biology Testing	T2-Toxin	Veratox for T-2/HT-2 (Kit Method Neogen) Product no. 8230
All Food & Milk	Microbiological Testing	Lactobacilli	ISO-15214
All types of Food / Feed & Beverages	Microbiological Testing	Total Plate Count	Bacteriological analytical manual online USFDA chap no.3 (Jan 2025) 8th Edition, Revision A,

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All types of Food / Feed & Beverages	Microbiological Testing	Total Coliform By solid method	Bacteriological analytical manual online USFDA chap no.4 (10/2020) 8th Edition, Revision A
All types of Food / Feed & Beverages	Microbiological Testing	Total fecal coliform by MPN method	Bacteriological analytical manual online USFDA chap no.4 (10/2020) 8th Edition, Revision A
All types of Food / Feed & Beverages	Microbiological Testing	E.coli by solid medium method	Bacteriological analytical manual online USFDA chap no.4
All types of Food / Feed & Beverages	Microbiological Testing	E. coli by MPN method	Bacteriological analytical manual online USFDA chap no.4 (10/2020) 8th Edition, Revision A
All types of Food / Feed & Beverages	Microbiological Testing	Staphylococcus aureus by direct plate method	Bacteriological analytical manual online USFDA chap no.12 (03/2016) 8th Edition, Revision A
All types of Food / Feed & Beverages	Microbiological Testing	Yeast & molds by dilution plating technique	Bacteriological analytical manual online USFDA chap no.18 (April 2001) 8th Edition, Revision A,
All types of Food / Feed & Beverages	Microbiological Testing	Salmonella	Bacteriological analytical manual online USFDA chap no.05 (05/2024) 8th Edition, Revision A,
All types of Food / Feed & Beverages	Microbiological Testing	Enumeration of Bacillus Cereus by Plate count	Bacteriological analytical manual online USFDA chap no.14 (Oct 2020) 8th Edition, Revision A
All types of Food / Feed & Beverages	Microbiological Testing	Detection of Listeria Monocytogenes	Bacteriological analytical manual online USFDA chap no.10 (April 2022)
All types of Food / Feed & Beverages	Microbiological Testing	Enumeration of Enterobacteriaceae	ISO 21528-2 (2017)
All types of Food / Feed & Beverages	Microbiological Testing	Detection of Clostridium Perfringes	Bacteriological analytical manual online USFDA chap no. 16
All types of Food / Feed & Beverages	Microbiological Testing	Detection of Clostridium Perfringes	ISO-7937(2014)

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All type of Water	Microbiological Testing	Total Plate Count	APHA 9215 B
All type of Water	Microbiological Testing	Total Coliform	APHA 9222D
All type of Water	Microbiological Testing	Fecal Streptococci	APHA 9230C
Cosmetics and personal care	Microbiological Testing	Total Plate Count	USP Chapter 61
Cosmetics and personal care	Microbiological Testing	Escherichia coli	USP Chapter 62
Cosmetics and personal care	Microbiological Testing	Staphylococcus aureus	USP Chapter 62
All type of Food and feed stuff	Microbiological Testing	Salmonella	FDA: BAM Ch:05 (2024), ISO 6579:2017
All type of Food and feed stuff	Microbiological Testing	Campylobacter	ISO 10272:2017
All type of Food and feed stuff	Microbiological Testing	Vibrio Spp,	ISO 21872-1:2017
All type of Food and feed stuff	Microbiological Testing	Vibrio parahemolyticus	ISO 21872-1:2017
Sugar, Sugar syrups & Pulps	Microbiological Testing	Thermophilic acidophile bacteria	ICUMSA-GS 2-50(2024)
Sugar, Sugar syrups & Pulps	Microbiological Testing	Guaiacol Producing Bacteria	ICUMSA-GS 2-50(2024)
Corn	Physical Testing	Broken	CODEX STAN (153-2019),PS 4839-2007,PS 1655-1984
Corn	Physical Testing	Foreign matter (edible & non edible)	CODEX STAN (153-2019),PS 4839-2007,PS 1655-1984
Corn	Physical Testing	Damage	CODEX STAN (153-2019),PS 4839-2007,PS 1655-1984
Corn	Physical Testing	Immature	CODEX STAN (153-2019),PS 4839-2007,PS 1655-1984
Corn	Physical Testing	Discolour	CODEX STAN (153-2019),PS 4839-2007,PS 1655-1984
Wheat	Physical Testing	Broken	ISO-7970:2021
Wheat	Physical Testing	Shrunken and Damage	ISO-7970:2021
Wheat	Physical Testing	Foreign Matter(Edible & non edible)	ISO-7970:2021
Wheat	Physical Testing	Bulk Density (Test Weight)	ISO7971-3-2019

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Rice	Physical Testing / Mechanical Testing	Broken	Inhouse method - AGR/LAB/SOP-12 based on PS-3342-2007& ISO 7301:2021
Rice	Physical Testing / Mechanical Testing	Damage, shriveled	Inhouse method - AGR/LAB/SOP-12 based on PS-3342-2007& ISO 7301:2024
Rice	Physical Testing / Mechanical Testing	Undermilled, red strip	Inhouse method - AGR/LAB/SOP-12 based on PS-3342-2007& ISO 7301:2024
Rice	Physical Testing / Mechanical Testing	Choba	Inhouse method - AGR/LAB/SOP-12 based on PS-3342-2007& ISO 7301:2024
Rice	Physical Testing / Mechanical Testing	Chalky	Inhouse method - AGR/LAB/SOP-12 based on PS-3342-2007& ISO 7301:2024

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