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Accreditation No: LAB 065

Awarded to

**SGS Agriculture, Food and Life (Lab),
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 17025:2017**.

The accreditation requires regular surveillance, and is valid until **25-08-2025**.

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

22-03-2023
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SD
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	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
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)	ISO7971-3-2009
Corn	Physical Testing	Broken	CODEX STAN (153-1985),PS 4839-2007,PS 1655-1984
Corn	Physical Testing	Foreign matter (edible & non edible)	CODEX STAN (153-1985),PS 4839-2007,PS 1655-1984

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Corn	Physical Testing	Damage	CODEX STAN (153-1985),PS 4839-2007,PS 1655-1984
Corn	Physical Testing	Discolour	CODEX STAN (153-1985),PS 4839-2007,PS 1655-1984
Rice	Physical Testing / Mechanical Testing	Broken	In-House Method AGR/LAB/SOP-12 based on PS-3342-2007& ISO 7301:2011
Rice	Physical Testing / Mechanical Testing	Damage, shriveled	In-House Method AGR/LAB/SOP-12 based on PS-3342-2007& ISO 7301:2011
Rice	Physical Testing / Mechanical Testing	Undermilled,red strip	In-House Method AGR/LAB/SOP-12 on PS-3342-2007& ISO 7301:2021
Rice	Physical Testing / Mechanical Testing	Choba	In-House Method AGR/LAB/SOP-12 based on PS-3342-2007& ISO 7301:2021
Rice	Physical Testing / Mechanical Testing	Chalky	In-House Method AGR/LAB/SOP-12 based on PS-3342-2007& ISO 7301:2021
Cereals & Cereal products	Chemical Testing	Moisture content	ISO-712:2009, Gafta 2:2(2018)
Cheese	Chemical Testing	Moisture content	AOAC 948.12 (2019)

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Liquid milk	Chemical Testing	Moisture content	AOAC 925.23(2019)
Milk powder	Chemical Testing	Moisture content	BIS 16072
Corn	Chemical Testing	Moisture content	ISO6540:2021
Meals / Feeds except oil seed meals	Chemical Testing	Moisture content	GAFTA 2:1(2018), ISO 6496:1999, AACC 44.19.01
Oil seed meal	Chemical Testing	Moisture content	ISO 771:2021
Sugar	Chemical Testing	Moisture content	ICUMSA GS 2/1/3/9- 15(2007)
Cereals, Grains and pulses & by products	Chemical Testing	Ash Content	ISO-2171:2007
Liquid milk	Chemical Testing	Ash Content	AOAC 945.46 (2019)
Milk powder	Chemical Testing	Ash Content	AOAC 930.30 (2019)

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Feeds, Meals	Chemical Testing	Ash Content	GAFTA 12:0(2018), ISO 5984:2002, AOAC 942.05(2019), AACC 08-03.01
Sugar	Chemical Testing	Ash Content	ICUMSA, GS 1-10 (1998)
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 Content	FD-TA-002_V4
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 AND AACC 46-12,ISO 5983;2,ISO 20483
Cereals, Grains, Feeds, Meals	Chemical Testing	Protein Content	AOAC 2001.11(4.2.11)2019

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Milk	Chemical Testing	Fat	AOAC 989.05 (2019)
Milk powder	Chemical Testing	Fat	AOAC 932.06 (2019)
Cheese	Chemical Testing	Fat	AOAC 933.05 (2019)
Feeds and meals except oil seed meal	Chemical Testing	Fat	Gafta 3:0-2018, ISO 6492:1999,
Oil seeds meals	Chemical Testing	Fat	ISO 734 1:2006
Food	Chemical Testing	Fat	SGS Inhouse method FD-FO-001_V1 based on AOAC(2016) 954.02, 922.06, 989.05, 995.19
Feed/Meal	Chemical Testing	Crude Fiber	ISO 6865: 2000
Food & Feed stuff	Chemical Testing	Carbohydrates	By calculation based on Food analysis 4 th edition 2010
Wheat	Mechanical Testing	Gluten Content mech. (wet)	AACC 38-12.02

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Wheat	Mechanical Testing	Gluten Content mech. (dry)	AACC 38-12.02
Wheat	Mechanical Testing	Gluten Index	AACC 38-12.02
Wheat	Manual Testing	Gluten Content manual (wet)	AACC 38-10.01
Wheat	Mechanical Testing	Falling Number	ISO 3093:2009
Sugar	Chemical Testing	ICUMSA Color 9	ICUMSA GS 2/3-9(2005)
Sugar	Chemical Testing	ICUMSA Color 10	ICUMSA GS 2/3/-10 (2011)
Sugar	Chemical Testing	ICUMSA Color 8	ICUMSA GS 9/1/2/3-8-(2011):
Sugar	Chemical Testing	Polarization	ICUMSA GS 2/3-1(2011)
Oil and Fat	Chemical Testing	FFA/ Acid Value	AOAC 940.28 (2019)

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Oil and Fat	Chemical Testing	Peroxide Value	AOAC 965.33(2019)
Oil and Fat	Chemical Testing	Iodine Value	AOCS Cd 1d-25
Food	Chemical Testing	pH	SGS inhouse test method
Liquid and less viscous Food samples	Chemical Testing	Density	SGS Inhouse Density meter
Cereals	Chemical Testing	DNA typing/ Authentication	(Agilent publication, 2007) Bligh H.F., IJFST, 2000, 35;257-265
All type of Food/Feed /Fabric	Chemical Testing	GMO Analysis	ISO-21569-2005 (Qualitative)
Cotton & textile	Chemical Testing	Screening of organism GMOs	IWA-32: 2019
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

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Chilli and spices	Chemical Testing	Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Total Aflatoxin	ASTA 24.2
Cereals & cereal products, grains, feeds, meals, oil seeds, dry fruits, spices	Chemical Testing	Total Aflatoxin	Veratox for Aflatoxin quantitative Test Product no. 8030 FGIS-2018-113
Food and feedstuff	Chemical Testing	Total Aflatoxin	Elisa kit method based on Celer Afla kit
Red chili, black pepper, spices	Chemical Testing	Total Aflatoxin	USDA-FGIS Aflatest Fluorometer Instruction manual VICAM Method no. 4.28
Dairy Products	Chemical Testing	Aflatoxin M1	Veratox Aflatoxin M1(Kit method Neogen) Product no. 8019
Cereals, grains, feeds, oil seeds, dry fruits, spices	Chemical Testing	Ochratoxin	Veratox for Ochratoxin(kit method Neogen) Product no. 8610
Cereals	Chemical Testing	Deoxynivalenol	SGS in house method AGR/Lab/SOP-47 based on Czech J. Food Sci. 20;63-68
Cereals	Chemical Testing	Zearalenone	Veratox for zearalenone (Kit Method Neogen) Product no. 8110

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Cereals	Chemical Testing	T2-Toxin	Veratox for T-2/HT-2 (Kit Method Neogen) Product no. 8230
Food and Feeding stuff	Chemical Testing	Vitamin A (Retinol)	SGS inhouse RSTS-FD-VI_008 based on BS EN 12823-1:2014
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 its supplements and multivitamin tablets and capsules and dairy products	Chemical Testing	Vitamin B9	Elisa kit method based on Sensi Spec kit (HU0030402)
Food and its supplements and multivitamin tablets and capsules and dairy products	Chemical Testing	Vitamin B12	Elisa kit method based on Sensi Spec kit (HU0030400)
Cereal products, Dairy, oil and oil based products and powder drinks	Chemical Testing	Vitamin D	Elisa kit method
Rice syrup, Rice protein, dairy, cereal, confectionary , spice mix, dessert mix	Chemical Testing	Lead	AOAC 2015.01/Spectroscopy/ICPMS

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Rice syrup, Rice protein, dairy, cereal, confectionary , spice mix, dessert mix	Chemical Testing	Cadmium	AOAC 2015.01/Spectroscopy/ICPMS
Rice syrup, Rice protein, dairy, cereal, confectionary , spice mix, dessert mix	Chemical Testing	Mercury	AOAC 2015.01/Spectroscopy/ICPMS
Rice syrup, Rice protein, dairy, cereal, confectionary , spice mix, dessert mix	Chemical Testing	Arsenic	AOAC 2015.01/Spectroscopy/ICPMS
Food	Chemical Testing	Iron	AOAC 2015.01/Spectroscopy/ICPMS
All types of Food / Feed & Beverages	Microbiological Testing	Total Plate Count	Bacteriological analytical manual online USFDA chap no.3 (Jan 2001) 8 th Edition, Revision A,
All types of Food / Feed & Beverages	Microbiological Testing	Total Coliform By solid method	Bacteriological analytical manual online USFDA chap no.4 (07/2017) 8 th Edition, Revision A, 1998
All types of Food / Feed & Beverages	Microbiological Testing	Total Coliform By MPN method	Bacteriological analytical manual online USFDA chap no.4 (07/2017) 8 th Edition, Revision A,

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All types of Food / Feed & Beverages	Microbiological Testing	Total fecal coliform by MPN method	Bacteriological analytical manual online USFDA chap no. 4(07/2017) 8 th 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 (07/2017) 8 th Edition, Revision A,
All types of Food / Feed & Beverages	Microbiological Testing	E. coli by MPN method	Bacteriological Analytical Manual, 8th Edition, Revision A, 1998. Chapter 4, 8 th Edition, Revision A,
All types of Food / Feed & Beverages	Microbiological Testing	Staphylococcus aureus by MPN method	Bacteriological analytical manual online USFDA chap no.12 (03/2016) 8 th 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) 8 th Edition, Revision A
All types of Food / Feed & Beverages	Microbiological Testing	Salmonella	Bacteriological analytical manual online USFDA chap no.05 (08/2016) 8 th 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) 8 th 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 (Feb 2012) 8 th Edition, Revision A,
All types of Food / Feed & Beverages	Microbiological Testing	Detection of Listeria Monocytogenes	Bacteriological analytical manual online USFDA chap no.10 (March 2017)

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All types of Food / Feed & Beverages	Microbiological Testing	Enumeration of Enterobacteriaceae	ISO 21528-2
All types of Food / Feed & Beverages	Microbiological Testing	Detection of Clostridium Perfringens	ISO 7937(2014)
Food	Microbiological Testing	Salmonella	ISO 6579:2002
Food	Microbiological Testing	Campylobacter	ISO 10272:2017
All food and dairy	Microbiological Testing	Lactobacilli	ISO-15214
SUGAR SYRUPS AND PULPS	Microbiological Testing	Thermophilic acidophile bacteria	ICUMSA-GS 2/3-50(2017)

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