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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/IEC 17025:2017**.

The accreditation requires regular surveillance and is valid until **27-8-2022**.

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

15-04-2021
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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	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
Wheat	Physical Testing	Broken	ISO-7970:2011
		Shrunken and Damage	ISO-7970:2011
		Foreign Matter(Edible & non edible)	ISO-7970:2011
		Bulk Density (Test Weight)	ISO7971-3-2009
Corn		Broken	CODEX STAN (153-1985), PS 4839-2007, PS 1655-1984
		Foreign matter (edible & non edible)	CODEX STAN (153-1985), PS 4839-2007, PS 1655-1984

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		Damage	CODEX STAN (153-1985),PS 4839-2007,PS 1655-1984	
		Immature	CODEX STAN (153-1985),PS 4839-2007,PS 1655-1984	
		Discolour	CODEX STAN (153-1985),PS 4839-2007,PS 1655-1984	
	Physical Testing	Broken	In-House Method AGR/LAB/SOP-12 based on PS-3342-2007& ISO 7301:2011	
		Damage, shriveled	In-House Method AGR/LAB/SOP-12 based on PS-3342-2007& ISO 7301:2011	
		Undermilled,red strip	In-House Method AGR/LAB/SOP-12 on PS- 3342-2007& ISO 7301:2011	
		Choba	In-House Method AGR/LAB/SOP-12 based on PS-3342-2007& ISO 7301:2011	
		Chalky	In-House Method AGR/LAB/SOP-12 based on PS-3342-2007& ISO 7301:2011	
Rice				

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Cereals except maize, Grains	Chemical Testing	Moisture content	ISO-712:2009, Gafta 2:2(2014)
Cheese			AOAC 948.12
Liquid milk			AOAC 925.23,
Milk powder			BIS 16072
Corn			ISO6540:1980,
Meals / Feeds except oil seed meals			GAFTA 2:1(2014), ISO 6496:1999, AACC 44- 19.01
Oil seed meal			ISO 771:1977
Sugar			ICUMSA GS 2/1/3/9- 15(2007)

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Cereals, Grains and pulses	Chemical Testing	Ash Content	ISO-2171:2007
Liquid milk			AOAC 945.46
Milk powder			AOAC 930.30
Feeds, Meals,			GAFTA 12:0(2014), ISO 5984:2002, AOAC 942.05, AACC 08-03.01
Sugar			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			FD-TA-002_V4

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Cereals, Grains, Feeds, Meals,	Chemical Testing	Protein Content	AOAC 2001.11(4.2.11),
Cereal, grains, feeds, meals, chocolate, Dairy			SGS Inhouse Method AGR/Lab/SOP-99 method based on AOAC 2001.11 AND AACC 46-12,ISO 5983;2,ISO 20483
Wheat		Gluten Content mech. (wet)	AACC 38-12.02
Wheat		Gluten Content mech. (dry)	AACC 38-12.02
Wheat		Gluten Index	AACC 38-12.02
Wheat		Gluten Content manual (wet)	AACC 38-10.01
Wheat		Falling Number	ISO 3093:2009
Sugar		ICUMSA Color 9	ICUMSA GS 2/3-9(2005)
Sugar		ICUMSA Color 10	ICUMSA GS 2/3/-10 (2011)

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Sugar	Chemical Testing	Polarization	ICUMSA GS 2/3-1(2011)
Cereals, grains, feeds, oil seeds		Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Total Aflatoxin	SGS inhouse method AGR/Lab/SOP-51 based on ISO16050:2003
Cereals, grains, feeds, oil seeds, dry fruits, spices		Total Aflatoxin	Veratox for Aflatoxin quantitative Test Product no. 8030 FGIS-2018-113
Red chili		Total Aflatoxin	USDA-FGIS Aflatest Fluorometer Instruction manual VICAM Method no. 4.28
Dairy Products		Aflatoxin M1	Veratox Aflatoxin M1(Kit method Neogen) Product no. 8019
Cereals, grains, feeds, oil seeds, dry fruits, spices		Ochratoxin	Veratox for Ochratoxin(kit method Neogen) Product no. 8610
Cereals		Deoxynivalenol	SGS in house method AGR/Lab/SOP-47 based on Czech J. Food Sci. 20;63-68
Cereals		Zearalenone	Veratox for zearalenone (Kit Method Neogen) Product no. 8110

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Oil and Fat,	Chemical Testing	FFA/ Acid Value	AOAC 940.28	
Oil and Fat		Peroxide Value	AOAC 965.33	
Oil and Fat		Iodine Value	AOCS Cd 1d-25	
Milk		Fat	AOAC 989.05	
Milk powder			AOAC 932.06	
Cheese			AOAC 933.05	
Feeds and meals except oil seed meal			Gafta 3:0-2014, ISO 6492:1999,	
Oil seeds meals			ISO 734 1:2006	
Feed/Meal			Crude Fiber	ISO 6865

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Food		pH	SGS inhouse test method
Cereals		DNA typing/ Authentication	(Agilent publication, 2007) Bligh H.F., IJFST, 2000, 35;257-265
All type of Food/Feed /Fabric		GMO Analysis	ISO-21569-2005 (Qualitative)
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,
		Total Coliform By solid method	Bacteriological analytical manual online USFDA chap no.4 (07/2017) 8 th Edition, Revision A, 1998
		Total Coliform By MPN method	Bacteriological analytical manual online USFDA chap no.4 (07/2017) 8 th Edition, Revision A,
		Total fecal coliform by MPN method	Bacteriological analytical manual online USFDA chap no. 4(07/2017) 8 th Edition, Revision A,
		E. coli by solid medium 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	E. coli by MPN method	Bacteriological Analytical Manual, 8th Edition, Revision A, 1998. Chapter 4, 8 th Edition, Revision A,
		Staphylococcus aureus by MPN method	Bacteriological analytical manual online USFDA chap no.12 (03/2016) 8 th Edition, Revision A
		Staphylococcus aureus by direct plate method	Bacteriological analytical manual online USFDA chap no.12 (03/2016) 8 th Edition, Revision A
		Salmonella	Bacteriological analytical manual online USFDA chap no.05 (08/2016) 8 th Edition, Revision A,
		Yeast & molds by dilution plating technique	Bacteriological analytical manual online USFDA chap no.18 (April 2001) 8 th Edition, Revision A,
		Enumeration of Bacillus Cereus by Plate count	Bacteriological analytical manual online USFDA chap no.14 (Feb 2012) 8 th Edition, Revision A,
		Detection of Listeria Monocytogenes	Bacteriological analytical manual online USFDA chap no.10 (March 2017)
		Enumeration of Enterobacteriaceae	ISO 21528-2
		Detection of Clostridium Perfringes	ISO 7937(2014)

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