



Valid from 11 July 2016
to 10 July 2019
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As an accredited laboratory, this laboratory is entitled to
use the following accreditation symbol.



ISO/ IEC 17025
TL 003-01

Schedule of Accreditation

Accreditation Scheme for Testing Laboratories
Sri Lanka Accreditation Board for Conformity Assessment

Accreditation Number: TL 003-01

**Chemical Laboratory
SGS Lanka (Pvt) Ltd
No,146/6,2nd Floor
Vauxhall Street
Colombo 02.**

Scope of Accreditation: Performing Chemical Testing of Food & Agricultural Products, Fertilizer, Water & Pesticides Residues as per the Test methods appearing in this schedule.

The laboratory is accredited for the following tests.

Sl No	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
1	Food and Agricultural Products			
1.1	Fish & Fishery Products fish, prawns, chicken, sausages, meat balls, fish balls, canned fish, dried fish, maldivian fish, crabs, cuttlefish	Sodium metabisulphite, as SO ₂	AOAC 990.28: 2012	10 - 2000 mg/kg
		Mercury	LCHE/TM/SOP/007:2012 AOAC 977.15: 2012 AOAC 974.14: 2012	LOQ 1 µg/L
		Cadmium	LCHE/TM/SOP/011:2012	LOQ 0.01 mg/L
		Lead	AOAC 999.10: 2012	LOQ 0.03 mg/L

SI No	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
1.2	Tea (black tea)	Moisture	ISO 1573:1980	4 – 10 %
		Water Extract (On dry basis)	ISO 9768:1994	32 – 45 %
		Total Ash (On dry basis)	ISO 1575:1987	4 – 8 %
		Water soluble ash as percentage of total ash (On dry basis)	ISO 1576:1988	55 – 65 %
		Water soluble Ash (On dry basis)	ISO 1576:1988	2 – 4 %
		Alkalinity of water soluble ash as KOH or as K ₂ O (On dry basis)	ISO 1578:1975	1 – 3 %
		Acid insoluble Ash (On dry basis)	ISO 1577:1987	0.1 – 1 %
		Crude Fiber (On dry basis)	ISO 15598:1999	8 – 16 %
		Copper	LCHE/TM/SOP/009 Rev:01	LOQ 0.01 mg/L
		Lead	AOAC 999.10: 2012	LOQ 0.04 mg/L
		Cadmium		LOQ 0.004 mg/L
		Iron		LOQ 0.01 mg/L
Zinc	LOQ 0.03 mg/L			
1.3	Black & white pepper	Piperine content		ASTA Method 12.1: 1997
1.4	Fat/Oil	Peroxide value	SLS 313-3:Section 7: 2009 ISO 3960: 2007	0 – 10 meq/kg

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2	Fertilizer			
2.1	Sulphate of Ammonia	Moisture	SLS 645: Part 2: Method 2: 1984 SLS 620:2014	0.5 - 1%
		Ammoniacal Nitrogen, as N	SLS 645: Part 1: Section B: 2009 SLS 620:2014	20.3 – 20.8%
		Free Acidity, as H ₂ SO ₄	SLS 620: Appendix C: 2014 SLS 620:2014	0.01 – 0.03%
2.2	Di-ammonium Phosphate	Moisture	SLS 645: Part 2: Method 2: 1984	0.01 - 1.6%
		Ammonical Nitrogen, as N	SLS 645: Part 1: Section B: 2009	10 - 20%
		Total phosphate, as P ₂ O ₅	SLS 645: Part 5: 1985	45 - 48%
		Water soluble phosphate, as P ₂ O ₅		35.0 - 45.0%
2.3	Single super phosphate (Granular and Powder form)	Moisture	SLS 645: Part 2: Method 1: 1984	0.5 - 5.0%
		Total phosphate as P ₂ O ₅	SLS 645: Part 5: 1985	16 - 18%
		Water soluble phosphate, as P ₂ O ₅	SLS 645: Part 5: 1985	12.0 – 16.0%
		Free phosphoric acid, as P ₂ O ₅	SLS 1318: Appendix B: 2007	1.0 – 5.0%
		Cadmium (mg/kg)	AOAC 2006.03: 2012	0.1 - 1 %
2.4	Urea (Prilled and Granular) SLS 618:2014	Moisture	SLS 645: Part 2: Method 2: 1984	0.2 - 1.5%
		Total Nitrogen, as N (on dry basis)	SLS 645: Part 1: Section C: 2009	45.0 – 46.6%
		Biuret	SLS 645: Part 3: Method 2: 2009	0.7 - 1%

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2.5	Potassium chloride MOP	Moisture	SLS 645: Part 2: Method 1: 1984 SLS 644:2014	0.5 - 5.0%
		Sodium, as NaCl (on dry basis)	SLS 645: Part 7: Section 1: 1994 SLS 644:2014	1 – 3.5%
		Water soluble potassium content as K ₂ O	AOAC 983.02:2012	59.5 - 63.5%
2.6	TSP	Moisture	SLS 645: Part 2: Method 1: 1984 SLS 812:2014	0.5 - 5.0%
		Total Phosphate, as P ₂ O ₅	SLS 645: Part 5: 1985 SLS 644:2014	45.5 – 47.5%
		Water soluble phosphate, as P ₂ O ₅	SLS 645: Part 5: 1985 SLS 644:2014	35.0 - 40.0%
		Free phosphoric acid, as P ₂ O ₅	SLS 644:2014 Appendix C SLS 644:2014	1.0 – 5.0%
		Cadmium	AOAC 2006.03: 2012 SLS 644:2014	1-100mg/kg
2.7	Mixed Fertilizer	Moisture	SLS 645: Part 2: Method 2: 1984	0.5 - 5.0%
		Total nitrogen, as N	SLS 645: Part 1: Section C: 2009	5.0 - 40%
		Total Phosphorous, as P ₂ O ₅	SLS 645: Part 5: 1985	5.0 - 50.0%
		Cadmium	AOAC 2006.03: 2012	0.3 - 1%

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3	Water			
3.1	Drinking Water, Processing Water, Potable Water, Raw Water.	pH	APHA 4500-H ⁺ B: 2012 (22 nd Edition)	1.0 – 14.0
		Chloride, as Cl	APHA 4500-Cl ⁻ B: 2012 (22 nd Edition)	1- 500 mg/L
		Hardness, as CaCO ₃	APHA 2340 C: 2012 (22 nd Edition)	2 - 1000 mg/L
		Nitrate, as N	APHA 4500-NO ₃ ⁻ B: 2012 (22 nd Edition)	0.1 – 50.0 mg/L
		Free Ammonia, as N	APHA 4500-NH ₃ D: 2012 (22 nd Edition)	0.04 – 0.65 mg/L
		Fluoride, as F	APHA 4500-F ⁻ C: 2012 (22 nd Edition)	0.10-5.00 mg/L
		Alkalinity, as CaCO ₃	APHA 2320 B: 2012 (22 nd Edition)	2–1000 mg/L
		Nitrite, as N	APHA 4500-NO ₂ ⁻ B: 2012 (22 nd Edition)	0.01 – 10.0 mg/L
		Dissolve Oxygen	ASTM D888-12:Method C	0.1 – 20.0 mg/L
		Residual chlorine, as Cl ₂	APHA 4500-Cl G: 2012 (22 nd Edition)	0.07 – 4.0 mg/L
		Free CO ₂	APHA 4500-CO ₂ B: 2012 (22 nd Edition)	0.1 – 2000 mg/L
		Oil & Grease	APHA 5520 B: 2012 (22 nd Edition)	1 – 100 mg/L
	Total solids/ Dry Residues	APHA 2540 B: 2012 (22 nd Edition)	3 – 2000 mg/L	

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3.1	Drinking water, processing water, potable water, raw water.	Total Suspended Solids	APHA 2540 D: 2012 (22 nd Edition)	2 – 500 mg/L
		Total Dissolved Solids	APHA 2540 C: 2012 (22 nd Edition)	3 – 2000 mg/L
		Iron, as Fe	APHA 3500-Fe B: 2012 (22 nd Edition)	0.1 – 50.0 mg/L
		Sodium, as Na	APHA 3120 B: 2012 (22 nd Edition)	0.05 – 200 mg/L
		Potassium, as K		0.05 - 100 mg/L
3.2	Waste water	pH	APHA 4500-H ⁺ B: 2012 (22 nd Edition)	1 - 14
		Chemical Oxygen Demand [COD]	APHA 5220 D: 2012 (22 nd Edition)	6 - 2000 mg/L
		Turbidity	APHA 2130 B: 2012 (22 nd Edition)	0.5 - 800 NTU
		Conductivity	APHA 2510 B: 2012 (22 nd Edition)	0.6 – 2000 μ S/cm
		Oil & Grease	APHA 5520 B: 2012 (22 nd Edition)	1 – 100 mg/L
		Colour	ISO 7887:Method B: 2011	0.1 - 99.9
		Silicate	APHA 4500-SiO ₂ C: 2012 (22 nd Edition)	0.5 - 100 mg/L
		Total Suspended Solids	APHA 2540 D: 2012 (22 nd Edition)	2 – 500 mg/L
		Total Dissolved Solids	APHA 2540 C: 2012 (22 nd Edition)	3 – 2000 mg/L

SI No	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
4	Pesticide residues			
4.1	Tea	Bifenthrin	LCHE/TM/SOP/001;Rev07 (AOAC 2007.01 2012)	LOD 0.01 mg/kg
		Chlorothalonil		
		Chlorpyrifos		
		Hexaconazole		
		Propiconazole		
		Dicofol		
		Bromopropylate		
		Chlorfluzuron		
		Cypermethrin		
		Flusilazole		
		Ethion		
		Fenpropathrin		
		Fenthion		
		Malathion		
		Methidathion		
		Parathion- methyl		
		Tebuconazole		
		Tetradifon		
		Propagite		
		Permethrin		
		Endosulfan		
		Etaxazole		
		Dichlorvos		

Sl No	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
4.1	Tea	Paraquate	LCHE/SOP/TM/065:Rev02	LOD 0.01 mg/kg
		Thiamethoxam	LCHE/SOP/TM/064:Rev02	

Deputy Director (Accreditation)
Sri Lanka Accreditation Board for Conformity Assessment

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4.1	Tea	Paraquate	LCHE/SOP/TM/065;Rev02	LOD 0.01 mg/kg
Thiamethoxam		LCHE/SOP/TM/064;Rev02		