

As an accredited laboratory, this laboratory is entitled to use the following accreditation symbol.



Valid from 16 January 2020
to 15 January 2023
Issued on 05 February 2020



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) Limited
No 141/7, Vauxhall Street
Colombo 02

Scope of Accreditation: Performing Chemical Testing of Food and Agricultural Products, Water, Fertilizer, Soil, Cosmetics and Pesticide Residues as per the Test Methods appearing in this schedule.

The laboratory is accredited for the tests appear from page 02 to 21;

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 Food and Agricultural Products				
1.1	Tea (Black tea, green tea, flavored tea, Herbal tea)	Moisture	ISO 1573:1980	1 – 10 %
		Water Extract (On dry basis)	ISO 9768:1994	32 – 45 %
		Total Ash (On dry basis)	ISO 1575:1987	4 – 8 %
		Water soluble ash 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 %
		Water insoluble ash (On dry basis)	ISO 1576: 1988	2 – 4 %
		Acid insoluble Ash (On dry basis)	ISO 1577:1987	0.1 – 1 %
		Crude Fiber (On dry basis)	ISO 15598:1999	8 – 16 %
		Caffeine	ISO 10727:2002	2 – 4 %
		Total Polyphenol	ISO 14502-1:2005	11 – 30 %
		Copper	LCHE/TM/SOP/009/Rev 04 (Based on AOAC 999.10: 2019 & AOAC 2015.01)	LOQ=1.0 mg/kg
		Lead		LOQ=4.0 mg/kg
		Cadmium		LOQ= 1.0 mg/kg
		Iron		LOQ=2.0 mg/kg
		Zinc		LOQ=1.0 mg/kg
		Nickel		LOQ=1.0 mg/kg
		Mercury		LOQ= 0.1 mg/kg
		Arsenic		LOQ= 2 mg/kg
1.2	Tea (Rare Earth Elements)	Scandium		GB 5009.94-2012
		Yttrium		
		Lanthanum		
		Cerium		
		Praseodymium		
		Neodymium		
		Samarium		
		Europium		
		Gadolinium		

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 (Rare Earth Elements)	Holmium	GB 5009.94-2012	MDL = 0.2 µg/L
		Erbium		
		Thulium		
		Ytterbium		
		Lutetium		
		Terbium		
		Dysprosium		
1.3	Spices (Black & White Pepper, Cloves, Nutmeg, Mace, Cardamom, Turmeric powder)	Moisture content	ASTA Method 2.0: 2011	5 – 18 %
		Volatile oil content (On dry basis)	ASTA Method 5.0: 2010	1 - 25 ml/100g
		Total Ash (On dry basis)	ISO 928:1997 SLS 186-3: 2008	1 – 9 %
		Acid Insoluble Ash (On dry basis)	ISO 930:1997 SLS 186-4: 2008	0.1 - 1%
		Crude fibre (On dry basis)	ASTA Method 7.0: 1997	1 – 40 %
1.4	Cinnamon	Moisture content	ASTA Method 2.0: 2011	5 – 18 %
		Volatile oil content (On dry basis)	ASTA Method 16.0: 2013	0.3 – 5 ml/100g
		Total Ash (On dry basis)	ISO 928:1997 SLS 186-3: 2008	1 - 9 %
		Acid Insoluble Ash (On dry basis)	ISO 930:1997 SLS 186-4: 2008	0.1 – 1 %
		Crude fiber (On dry basis)	ASTA Method 7.0: 1997	1 – 50 %
		Sulphur dioxide	AOAC 990:28: 2012	10 - 500 mg/kg
		Coumarin Content	LCHE/TM/SOP/072 /Rev00	1ppm-30,000ppm
1.5	Fruit Juice and Concentrates	Sulphur dioxide	AOAC 990.28 Monier Williams method. 19 th Edition, 2012	10 – 70 mg/kg
		Titrateable acidity	SLS 214: Appendix C: 2010	0.1 – 2 mg/kg
		Benzoic acid content	SLS 1332 -3 :2008 SLS 214:2010 Appendix-E	10mg/kg
		Sorbic acid content	ISO 22855:2008	10mg/kg
1.6	All food commodities	Aflatoxin B1	LCHE/TM/SOP/062/ Rev: 05	LOD=0.4 µg/kg
		Aflatoxin G1		LOD=0.4 µg/kg
		Aflatoxin B2		LOD=0.1 µg/kg
		Aflatoxin G2		LOD=0.1 µg/kg

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
1.7	Fish and Fishery Products (Maldivian fish, Dry fish)	Histamine content	AOAC 977.13: 2012	0.1 – 100 mg/kg
1.8	Edible Salt (Granular form)	Moisture	SLS 79: 2014	0.01-12.0%
		Sodium chloride as NaCl		90-100%
		Iodine content		10-50 mg/kg
		Matter insoluble in water on dry basis % by mass		0.01 - 2.0%
1.9	Food Grade Salt (Powdered form)	Moisture	SLS 80: 2019	0.01 - 10.0%
		Matter insoluble in water		0.01 – 2.0%
		Sodium Chloride as NaCl		90-100%
		Iodine content		10-50 mg/kg
1.10	All food commodities	Gluten	ELISA RIDASCREEN Art Nr R 7001	LOQ 5 mg/kg
1.11	Antibiotic Residues in all food commodities	Chloramphenicol	ELISA RIDASCREEN Art No R 1505	1 – 6.25 mg/kg
1.12	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/Rev:04 (Based on AOAC 999.10: 2019 & AOAC 2015.01: 2019)	LOQ=0.1 mg/kg
		Cadmium	LCHE/TM/SOP/011 / Rev: 01 (Based on AOAC 999.10: 2019)	LOQ=1.0 mg/kg
		Lead		LOQ=4.0 mg/kg
		Arsenic	LCHE/TM/SOP/011/Rev 01 (Based on AOAC 999.10:2019)	LOQ 1.0mg/kg
1.13	Cereals / Corn flakes / Full Cream milk powder / Skimmed Milk Powder	Lead	LCHE/TM/SOP/012/Rev:01 (Based on AOAC 999.10: 2019 & AOAC 2015.01: 2019)	LOQ = 0.7 mg/kg
		Cadmium		LOQ = 1.0 mg/kg
		Mercury		LOQ = 1.0 mg/kg
		Aluminum		LOQ = 1.0 mg/kg
		Arsenic		LOQ = 1.0 mg/kg

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
1.13	Cereals / Corn flakes /Full Cream milk powder / Skimmed Milk Powder	Moisture content	SLS 735-3:1987	0.01 – 5.0 %
		Milk fat content	SLS 735-1:Section 2: Annex B: 2009 ISO 1736 ; 2008	0.01 –5.00 %
		Milk protein in milk solids not-fat	SLS 731:Appendix E: 2008	30 – 50 %
		Titratable acidity, as lactic acid	SLS 735-2:1987	0.01 - 2.0 %
		Copper	LCHE/TM/SOP/008/Rev:01 (Based on AOAC 999.10: 2019 & AOAC 2015.01: 2019)	LOQ=1.0 mg/kg
		Manganese		LOQ=3.0 mg/kg
		Magnesium		LOQ=5.0 mg/kg
		Zinc		LOQ=1.0 mg/kg
		Calcium		LOQ=5.0 mg/kg
		Iron		LOQ=5.0 mg/kg
		Potassium		LOQ=7.0 mg/kg
		Sodium		LOQ=5 mg/kg
Phosphorus	LOQ=9.0 mg/L			
1.14	Black and White Pepper	Piperine content		ASTA Method 12.1: 2018
1.15	Desiccated coconut	Moisture content	SLS 98:Appendix C: 1988	0.1 – 3.5 %
		Oil content	SLS 98: Appendix D: 1988	30 – 70 %
		Acidity, as lauric acid	SLS 98: Appendix E: 1988	0.01 – 1 %
1.16	Edible Fats and Oils (Coconut oil, virgin coconut oil Palm oil, Palm olein, Palm Sterain, Palm Kernel Oil, Sunflower seed Oil) (Fatty acid methyl ester) and all food commodities	Butyric acid	ISO 12966 – 1:2014 (E) & ISO 12966-2:2011 (E)/ Method 4.4	LOD 0.01 g/100 g
		Caproic acid		
		Caprylic acid		
		Capric acid		
		Undecanoic acid		
		Lauric acid		
		Tridecanoic acid		
		Myristic acid		
		Myristoleic acid		
		Pentadecanoic acid		
		cis-10-pentadecanoic acid		

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
1.16	Edible Fats and Oils (Coconut oil, virgin coconut oil Palm oil, Palm olein, Palm Sterain, Palm Kernel Oil, Sunflower seed Oil) (Fatty acid methyl ester)	Palmatic acid Palmitoleic acid Heptadecanoic acid cis-10-heptadecanoic acid Stearic acid Elaidic acid Oleic acid Linolelaidic acid Linoleic acid Arachidic acid g-Linolenic acid cis-11-eicosenoic acid Linolenic acid Heneicosanoic acid cis-11-14-eicosatrienoic acid Behenic acid methyl cis-8,11,14-eicosatrienoate Erucic acid cis-11-14-17-eicosatrienoic acid Arachidonic acid Tricosanoic acid cis-13,16-docosadienoic acid cis-5,8,11,17-eicosapetaenoic acid Nervonic acid	ISO 12966 – 1:2014 (E) & ISO 12966-2:2011 (E)/ Method 4.4	LOD 0.01 g/100 g

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
1.16	Edible Fats and Oils (Coconut oil, virgin coconut oil Palm oil, Palm olein, Palm Sterain, Palm Kernel Oil, Sunflower seed Oil (Fatty acid methyl ester))	cis-4,7,10,13,16,19-docosahexaenoic acid	ISO 12966 – 1:2014 (E) & ISO 12966-2:2011 (E)/ Method 4.4	LOD 0.01 g/100 g
		cis-13,16-docosadienoic acid		
		Lignoceric acid		
		Saturated fatty acids		
		Mono unsaturated fatty acids		
		Poly unsaturated fatty acids		
		Trans fatty acids		
1.16	Edible Fats and Oils (Coconut oil, virgin coconut oil Palm oil, Palm olein, Palm Sterain, Palm Kernel Oil, Sunflower seed Oil)	Lovibondcolour: 133.4 mm (5 ¼ inch)	SLS 313-1:Section 4: 2009 (ISO 15305: 1998)	0.1 to 70 R, 0.1 to 70 Y, 0.1 to 40 B, 0.1 to 3.0 neutral (Lovibond units)
		Relative Density	SLS 313-1:Section 2: 2009	0.800 – 0.950 (°C/t0°C in air)
		Insoluble impurities content	SLS 313-3:Section 4: 2009 ISO 663: 2017	0.01 – 1.00 %
		Moisture and volatile matter content	SLS 313-3:Section 5: 2009 ISO 662:2016	0.01 – 1.00 %
		Free fatty acids / Acidity / Acid value	SLS 313-2:Section 6: 2009 ISO 660: 2009	0.01 – 6.00 %
		Iodine Value	SLS 313-2:Section 2: 2014 ISO 3961: 2018	5 – 160
		Saponification value	SLS 313-2:Section 1: 2014 ISO 3657: 2013	160 to 270
		Unsaponifiable matter content	SLS 313-4:Section 3: 2010 ISO 3596: 2000	0.02 – 3 %
		Peroxide value	SLS 313-3:Section 7: 2009 ISO 3960: 2017	0.02 – 10 meq O ₂ /kg
		Slip melting point	SLS 313-1:Section 7: Annex A: 2009 ISO 6321: 2002	10 – 100.0 °C
		Unsaponifiable matter content	SLS 313-4:Section 3: 2010 ISO 3596: 2000	0.50 – 3 %
1.17	White Sugar, Brown sugar, icing sugar, refined sugar, raw sugar	Polarization	SLS 191:Appendix B:2017	90-100°S
		Loss on drying	SLS 191:Appendix D:2017	0.005 – 5.0 %
		Colour	SLS 191:Appendix F:2017	10 – 500 ICUMSA units

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
1.18	Soya Sauce	pH	SLS 1035: Appendix D: 1995	2 - 8
		Salt as Sodium Chloride	SLS 1035: Appendix E: 1995	1 - 20 %
1.19	Biscuit	Moisture	SLS 1313:2007 & SLS 251: Appendix B: 2010	0.02 - 10%
		Acid Insoluble Ash	SLS 251: Appendix C: 2010	0.05 – 0.5%
		Acidity	SLS 251: Appendix D: 2010	0.01 - 2.0%
1.20	Dairy Fat Spread	Fat content	SLS 735-1: Section 8: 2011 ISO17189 :2003	10 - 80 %
		Salt content	SLS 735-11: 2011 ISO 1738; 2004	0.5 – 3%
		Free Fatty acid as oleic acid	SLS 313-2: Section 6: 2009	0.01 - 1.0 %
1.21	Sugar Confectionary (Chewing gum, Bubble gum, Toffee, Lozenges, Hard Boiled Sugar, Hard Candy Gelatin based products, Soft candy Pectin based products)	Moisture	SLS 586: Clause 3:1982 SLS 586: 1982	0.02 - 25%
		Sulphated Ash	SLS 586: Clause 4:1982	0.01 - 11.5%
		Acid Insoluble Ash	SLS 586: Clause 5:1982	0.01 - 2.0%
		Reducing Sugar	SLS 586: Clause 6:1982	1 - 50%
		Sucrose	SLS 586: Clause 7:1982	1 - 100%
		Fat	SLS 586: Clause 8:1982	0.1 - 10.0%
1.22	All food commodities	Moisture	LCHE/TM/SOP/057/Rev: 01	0.02 – 100%
		Ash	LCHE/TM/SOP/052/Rev:00	0.02 – 20%
		Protein	LCHE/TM/SOP/053//Rev:00	0.1 – 100%
		Fat	LCHE/TM/SOP/054/Rev:00	0.1 – 100%
		Energy	LCHE/TM/SOP/058/Rev:00	1.7 – 1500 kcal/100g
		Crude fiber	LCHE/TM/SOP/055/Rev:00	0.05 – 80%
		Carbohydrate	LCHE/TM/SOP/056/Rev:00	0.1 – 100%
		Maltose	LCHE/TM/SOP/097/Rev:01	LOD 0.005 g/100g
		Sucrose		
		Glucose		
		Fructose		
		Lactose		
1.23	All food commodities	Cholesterol	LCHE/TM/SOP/099/Rev 01	LOD – 10 mg/kg

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
2 Water				
2.1	Drinking water, Processing water, Potable water, Raw water	pH	APHA 4500-H+ B: 2017 (23 rd Edition)	1.0 – 14.0
		Chloride, as Cl	APHA 4500-Cl- B: 2017 (23 rd Edition)	1- 500 mg/L
		Hardness, as CaCO ₃	APHA 2340 C: 2017 (23 rd Edition)	2 - 1000 mg/L
		Turbidity	APHA 2130 B: 2017 (23 rd Edition)	0.5 - 800 NTU
		Nitrate, as N	APHA 4500-NO3-B: 2017 (23 rd Edition)	0.1 – 50.0 mg/L
		Free Ammonia, as N	APHA 4500-NH3 D: 2017 (23 rd Edition)	0.04 – 0.65 mg/L
		Fluoride, as F	APHA 4500-F- C: 2017 (23 rd Edition)	0.10-5.00 mg/L
		Alkalinity, as CaCO ₃	APHA 2320 B: 2017 (23 rd Edition)	2–1000 mg/L
		Nitrite, as N	APHA 4500-NO2- B: 2017 (23 rd Edition)	0.01 – 10.0 mg/L
		Dissolved Oxygen	APHA 4500-O-H 2017 (23 rd Edition)	0.1 – 20.0 mg/L
		Residual chlorine, as Cl ₂	APHA 4500-CIG: 2017 (23 rd Edition)	0.07 – 4.0 mg/L
		Free CO ₂	APHA 4500-CO2B: 2017 (23 rd Edition)	0.1 –2000 mg/L
		Oil & Grease	APHA 5520 B: 2017 (23 rd Edition)	1 –100 mg/L
		Total solids/ Dry Residues	APHA 2540 B: 2017 (23 rd Edition)	3 – 2000 mg/L
		Total Suspended Solids	APHA 2540 D: 2017 (23 rd Edition)	2 –500 mg/L
		Total Dissolved Solids	APHA 2540 C: 2017 (23 rd Edition)	3 – 2000 mg/L
		2.2	Drinking water, Processing water, Potable water, RO water, Desalinated water	pH
Total Phosphorous, as P ₂ O ₅	APHA 4500-P D: 2017 (23 rd Edition)			0.11 – 229.14 mg/L
Total Phosphorous, as PO ₄ ³⁻	APHA 4500-P D: 2017 (23 rd Edition)			0.15 – 306.62 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
2.2	Drinking water, Processing water, Potable water, RO water, Desalinated water	Alkalinity, as CaCO ₃	APHA 2320 B: 2017 (23 rd Edition)	2–1000 mg/L
		Nitrite, as N	APHA 4500-NO ₂ - B: 2017 (23 rd Edition)	0.01 – 10.0 mg/L
		Hardness, as CaCO ₃	APHA 2340 C: 2017 (23 rd Edition)	2 - 1000 mg/L
		Nitrate, as N	APHA 4500-NO ₃ -B: 2017 (23 rd Edition)	0.1 – 50.0 mg/L
		Nitrate, as NO ₃ ⁻	APHA 4500-NO ₃ - B: 2017 (23 rd Edition)	0.44 – 221.33 mg/L
		Free Ammonia, as N	APHA 4500-NH ₃ D: 2017 (23 rd Edition)	0.04 – 0.65 mg/L
		Free Ammonia, as NH ₃	APHA 4500-NH ₃ D: 2017 (23 rd Edition)	0.049 – 0.79 mg/L
		Fluoride, as F	APHA 4500-F- C: 2017 (23 rd Edition)	0.10-5.00 mg/L
2.3	Drinking water, Processing water, Potable water, RO water, Desalinated water	Nitrite, as NO ₂ ⁻	APHA 4500-NO ₂ - B: 2017 (23 rd Edition)	0.03 – 32.85 mg/L
		Dissolved Oxygen	APHA 4500-O-H 2017 (23 rd Edition)	0.1 – 20.0 mg/L
		Ammonical nitrogen, as N	APHA 4500-NH ₃ C & D: 2017 (23 rd Edition)	5-200mg/L
		Residual chlorine, as Cl ₂	APHA 4500-CIG: 2017 (23 rd Edition)	0.07 – 4.0 mg/L
		Free CO ₂	APHA 4500-CO ₂ B: 2017 (23 rd Edition)	0.1 –2000 mg/L
		Oil & Grease	APHA 5520 B: 2017 (23 rd Edition)	1 –100 mg/L
		Total solids/ Dry Residues	APHA 2540 B: 2017 (23 rd Edition)	3 – 2000 mg/L
		Total Suspended Solids	APHA 2540 D: 2017 (23 rd Edition)	2 –500 mg/L
		Total Dissolved Solids	APHA 2540 C: 2017 (23 rd Edition)	3 – 2000 mg/L
		Iron, as Fe	APHA 3500-Fe B: 2017 (23 rd Edition)	0.1 – 50.0 mg/L
2.4	Drinking Water, Processing Water, Potable Water, Raw Water, RO Raw, Desalinated Water	Calcium as Ca	APHA 3500-Ca B: 2017 (23 rd Edition)	4 - 1000 mg/L
			APHA 3120 B: 2017 (23 rd Edition)	0.05 - 200mg/L
		Magnesium as Mg	APHA 3120 B: 2017 (23 rd Edition)	0.05 - 200 mg/L
		Boron as B		0.01 - 50 mg/L
		Cobalt, as Co	APHA 3120 B: 2017 (23 rd Edition)	0.01 – 10 mg/L
		Beryllium, as Be		0.01 - 10 mg/L
		Antimony, as Sb		0.05 – 10 mg/L
		Manganese, as Mn		0.01 – 10 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	
2.4	Drinking Water, Processing Water, Potable Water, Raw Water, RO Raw, Desalinated Water	Zinc, as Zn	APHA 3120 B: 2017 (23rd Edition)	0.01 – 10 mg/L	
		Silver, as Ag		0.05 - 10 mg/L	
		Arsenic, as As		0.0004 - 10 mg/L	
		Nickel, as Ni		0.01 – 10 mg/L	
		Barium, as Ba		0.05 - 10 mg/L	
		Lead, as Pb		0.0006 – 10 mg/L	
		Copper, as Cu		0.01 - 100 mg/L	
		Aluminium, as Al		0.01 – 10 mg/L	
		Vanadium, as V		0.01 – 5 mg/L	
		Cadmium, as Cd		0.0003 - 10 mg/L	
		Chromium, as Cr		0.01 - 10 mg/L	
		Selenium, as Se		0.01 - 10 mg/L	
		Iron, as Fe		0.01 - 10 mg/L	
		Tin, as Sn		APHA 3113 B: 2017 (23rd Edition)	0.05 - 5.0 mg/L
		Turbidity		APHA 2130 B: 2017 (23rd Edition)	0.5-800 NTU
		Total Phosphorous, as P	APHA 4500-P D: 2017 (23rd Edition)	0.05 – 100.0 mg/L	
		Dissolved Phosphate as P	APHA 4500-P D: 2017 (23rd Edition)	0.05 – 100.0 mg/L	
Sulphate as SO ₄ ²⁻	APHA 4500- SO ₄ ²⁻ E: 2017 (23rd Edition)	1.5 – 500 mg/L			
Silica as SiO ₂	APHA 4500-SiO ₂ C:2017 (23rd Edition)	0.5 -100 mg/L			
Silicate as Si	APHA 4500-SiO ₂ C: 2017 (23rd Edition)	0.23-46.74 mg/L			
2.5	Grade III Water/ Processing Water/ Water	Permanganate Oxidizability	ISO 8467:1993	0.5mg/L - 10 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
2.6	Waste Water	pH	APHA 4500-H+ B: 2017 (23 rd Edition)	1 - 14
		Chemical Oxygen Demand [COD]	APHA 5220 D: 2017 (23 rd Edition)	15 - 2000 mg/L
		Turbidity	APHA 2130 B: 2017 (23 rd Edition)	0.5 - 800 NTU
		Conductivity	APHA 2510 B: 2017 (23 rd Edition)	0.6 – 2000 µS/cm
		Oil & Grease	APHA 5520 B: 2017 (23 rd Edition)	1 –100 mg/L
		Colour	ISO 7887:Method B: 2011	0.1 - 99.9 m ⁻¹
		Total Phosphorous, as P	APHA 4500-P D: 2017 (23 rd Edition)	0.05 - 100 mg/L
		Total Phosphorous, as P ₂ O ₅	APHA 4500-P D: 2017 (23 rd Edition)	0.11 – 229.14 mg/L
		Total Phosphorous, as PO ₄ ³⁻	APHA 4500-P D: 2017 (23 rd Edition)	0.15 – 306.62 mg/L
		Dissolved Phosphorous, as P	APHA 4500-P D: 2017 (23 rd Edition)	0.05 - 100 mg/L
		Dissolved Phosphorous, as P ₂ O ₅	APHA 4500-P D: 2017 (23 rd Edition)	0.11 – 229.14 mg/L
		Dissolved I Phosphorous, as PO ₄ ³⁻	APHA 4500-P D: 2017 (23 rd Edition)	0.15 – 306.62 mg/L
		Ammonical nitrogen, as N	APHA 4500-NH ₃ C: 2017 (23 rd Edition)	5 – 200 mg/L
		Ammonical nitrogen, as NH ₃	APHA 4500-NH ₃ C : 2017 (23 rd Edition)	6.08-243.18 mg/L
		Dissolved Oxygen	APHA 4500-O-H 2017 (23 rd Edition)	0.1 – 20.0 mg/L
		Ammonical nitrogen, as N	APHA 4500-NH ₃ C: 2017 (23 rd Edition)	5 – 200 mg/L
		Total Suspended Solids	APHA 2540 D: 2017 (23 rd Edition)	2 –500 mg/L
		Total Dissolved Solids	APHA 2540 C: 2017 (23 rd Edition)	3 – 2000 mg/L
		Kjeldhal nitrogen, as N	APHA 4500–Norg C: 2017 (23 rd Edition)	5 – 200 mg/L
		Kjeldhal nitrogen, as NH ₃	APHA 4500–Norg C: 2017 (23 rd Edition)	6.08– 243.18 mg/L
		Biological Oxygen Demand (BOD)	APHA-5210 B: 2017 (23 rd Edition)	5 – 2000 mg/L
		Lead, as Pb	APHA 3120 B: 2017 (23 rd Edition)	0.01 - 10 mg/L
		Copper, as Cu		0.01 - 10 mg/L
Cadmium, as Cd	0.003 - 10 mg/L			
Vanadium, as V	0.01 - 10 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
3 Fertilizer				
3.1	Ammonium Sulphate SLS 620:2014	Moisture	SLS 645: Part 2: Method 2: 1984	0.05 – 2.0%
		Ammoniacal Nitrogen, as N on dry basis	SLS 645: Part 1: Section B: 2009	20.0 – 22.0%
		Free Acidity, as H ₂ SO ₄	SLS 620: Appendix C: 2014	0.01 – 0.10%
		Sulphur as S	AOAC 980.02	22.7 – 24.5%
		Arsenic as As	AOAC 2006.03: 2012	0.04-100mg/kg
		Chromium as Cr	AOAC 2006.03: 2012	0.3-100mg/kg
		Lead as Pb	AOAC 2006.03: 2012	0.06-100mg/kg
		Mercury as Hg	LCHE/TM/SOP/101:Rev.00	0.1-5 mg/kg
		Cadmium as Cd	AOAC 2006.03: 2012	0.03-100mg/kg
3.2	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	8.0 – 20.0%
		Total phosphate, as P ₂ O ₅	SLS 645: Part 5: 1985	45.0 – 51.0%
		Water soluble phosphate, as P ₂ O ₅	SLS 645: Part 5: 1985	35.0 - 45.0%
3.3	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 - 19%
		Water soluble phosphate of total phosphate, as P ₂ O ₅	SLS 645: Part 5: 1985	75 – 85%
		Free phosphoric acid, as P ₂ O ₅	SLS 1318: Appendix B: 2007	1.0 – 5.0%
		Cadmium	AOAC 2006.03: 2012	0.03 - 100 mg/kg
3.4	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 – 1.1%
		Arsenic as As	AOAC 2006.03: 2012	0.04-100mg/kg
		Chromium as Cr	AOAC 2006.03: 2012	1-100mg/kg
		Lead as Pb	AOAC 2006.03: 2012	0.06-100mg/kg
		Mercury as Hg	LCHE/TM/SOP/101:Rev.00	0.1-5 mg/kg
		Cadmium as Cd	AOAC 2006.03: 2012	0.03-100mg/kg

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
3.5	Potassium Chloride MOP SLS 644:2014	Moisture	SLS 645: Part 2: Method 1: 1984	0.5 % - 5.0%
		Sodium, as NaCl	SLS 645: Part 7: Section 1: 1994	1 –5 %
		Water soluble potassium content as K ₂ O	SLS 645:Part 4, Section 1:1989	59.5 - 63.5%
		Magnesium as MgCl ₂	AOAC 965.09 2012	0.1 - 2 %
		Arsenic as As	AOAC 2006.03: 2012	0.04-100mg/kg
		Chromium as Cr	AOAC 2006.03: 2012	1-100mg/kg
		Lead as Pb	AOAC 2006.03: 2012	0.06-100mg/kg
		Mercury as Hg	LCHE/TM/SOP/101:Rev.00	0.1-5mg/kg
		Cadmium	AOAC 2006.03: 2012	0.06-100mg/kg
3.6	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	45.5 – 47.5%
		Water soluble phosphate of total phosphorous, as P ₂ O ₅	SLS 645: Part 5: 1985	75- 85%
		Free phosphoric acid, as P ₂ O ₅	SLS 812:2014 Appendix B	1.0 – 5.0%
		Arsenic as As	AOAC 2006.03: 2012	0.04 -100mg/kg
		Chromium as Cr	AOAC 2006.03: 2012	1-100mg/kg
		Lead as Pb	AOAC 2006.03: 2012	0.06 -100mg/kg
		Mercury as Hg	LCHE/TM/SOP/101:Rev.00	0.1-5 mg/kg
		Cadmium	AOAC 2006.03: 2012	0.06-100mg/kg
3.7	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%
		Magnesium content as MgO	SLS 645:Part 6:1990	23.0 %– 29.0%
		Arsenic as As	AOAC 2006.03: 2012	0.04-100mg/kg
		Chromium as Cr	AOAC 2006.03: 2012	1-100mg/kg
		Lead as Pb	AOAC 2006.03: 2012	0.06 -100mg/kg
		Mercury as Hg	LCHE/TM/SOP/101:Rev.00	0.1-5 mg/kg
		Cadmium as Cd	AOAC 2006.03: 2012	0.06 -100mg/kg

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 Soil				
4.1	Soil	Total Nitrogen	ISO 11261:1995	1-50mg/g
		Extractable Phosphorous	ISO 11263:1994	2-100mg/kg
		Organic Carbon	ISO 14235:1998	2-200mg/kg
		Ex k (Exchangeable Potassium)	ISO 13536 :1995	2-100 cmol/kg
		Ex Mg (Exchangeable Magnesium)	ISO 13536:1995	2-100 cmol/kg
		Ex Na (Exchangeable Sodium)	ISO 13536:1995	2-100 cmol/kg
		pH	ISO 10390:2005	1.5-14
		Electrical Conductivity	ISO 11265:1994	50-2000µS/cm
		Cadmium	EPA 3051A:2007 (Environmental Protection Agency, USA)	0.05-100mg/kg
		Chromium		2-100mg/kg
		Copper		1-100mg/kg
		Lead		2-100mg/kg
		Molybdenum		1-100mg/kg
		Nickel		2-100mg/kg
		Vanadium		2-100mg/kg
Zinc	2-100mg/kg			
5 Cosmetics				
5.1	Laundry soap powders, Flakes & chips	Total fatty matter	ISO 685:1975	6.0 – 90 %
		Free caustic alkali (Calculated as NaOH)	ISO 456:1973	0.01 – 0.80 %
		Content of ethanol-insoluble matter (TYPE I)	ISO 673:1981	0.2– 28.0 %
		Chloride content, as NaCl	ISO 457:1983	0.2 – 2.8 %
		Moisture & volatile matter content (TYPE I)	ISO 672:1978	0.5 – 30 %
		Unsaponified and unsaponifiable matter	ISO 1067:1974	0.1 – 4 %
		pH at 27±2°C	SLS 38:Appendix B: 2009	3.0 – 13.0
5.2	Baby Soap	Total fatty matter	ISO 685:1975	6.0 – 90 %
		Freedom from rosin	SLS 547:Appendix B: 2009	Not Applicable (Qualitative test)
		Content of ethanol-insoluble matter	ISO 673:1981	0.2 – 28.0 %
		Free caustic alkali as NaOH	ISO 456:1973	0.01 – 0.8 %
		Total free alkali as NaOH	ISO 684:1974	0.02 – 2.4 %
		Chloride content, as NaCl	ISO 457:1983	0.2 – 2.8 %

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
5.3	Liquid toilet soap	Total fatty matter	ISO 685:1975	6.0 – 90 %
		pH at 27±2°C	SLS 1142:Appendix B: 2009	3.0 – 13.0
		Content of ethanol-insoluble matter	ISO 673:1981	0.2 – 28.0 %
		Total free alkali as NaOH	ISO 684:1974	0.02 – 2.4 %
5.4	Toilet Soap	Total fatty matter	SLS 34: Appendix C:2009	6.0 – 90 %
		Rosin acids content	SLS 34:Appendix B: Method 2: 2009	1.0 – 33.0 %
		Content of ethanol-insoluble matter	ISO 673:1981	2.0 – 28.0 %
		Free caustic alkali as NaOH	ISO 456:1973	0.01 – 8.0 %
		Total free alkali as NaOH	ISO 684:1974	0.02 – 2.4 %
		Chloride content, as NaCl	ISO 457:1983	0.2 – 2.8 %
5.5	Laundry Soap (Type I & II)	pH at 27±2°C	SLS 1342:2008: Appendix C	3.0 – 13.0
		Total Fatty Matter including rosin acid	SLS 685:1975	6.0 -90%
		Matter insoluble in Ethanol	ISO 673:1981	0.2 – 28.0 %
		Free caustic alkali as NaOH	ISO 456:1973	0.01 – 0.8 %
		Total free alkali as NaOH	ISO 684:1974	0.02 – 2.4 %
		Total Unsaponified matter	ISO 1067:1974	0.1 – 4%
		Chloride calculated as NaCl	ISO 457:1983	0.2 – 2.8 %
5.6	Skin cream & lotions	pH at 27±2°C	SLS 611:Appendix C.3: 1983	3.0 – 13.0
		Non-volatile matter at 105°C	SLS 743:Appendix B: 2014	1.0 – 90 %
		Water content	SLS 611:Appendix C.5: 1983	3 – 99.0 %
5.7	Skin creams & lotions for babies	pH at 27±2°C	SLS 611:Appendix C.3: 1983	3.0 – 13.0
		Non-volatile matter at 105°C	SLS 742:Appendix B: 2014	1 – 90.0 %
		Water content	SLS 611:Appendix C.5: 1983	3– 99.0 %
5.8	After-shave lotion	Ethanol content	SLS 1619:Appendix E: 2018	10 – 95 %
5.9	Perfumes	Ethanol content	SLS 1619:Appendix E: 2018	10 – 95 %
5.10	Baby cologne	Ethanol content	SLS 589:Appendix D: 2018	10 – 95 %

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
5.11	Skin powder for babies	Matter insoluble in boiling water	SLS 187:Appendix C: 2013	10 – 99 %
		Fineness a) Residue on 75-µm sieve, percent by mass, max. Residue on 150-µm sieve, percent by mass, max.	SLS 187:Appendix D: 2013	0.05– 5%
		Moisture & volatile matter	SLS 187:Appendix E: 2013	0.5 – 5 %
		pH of aqueous suspension	SLS 187:Appendix F: 2013	3.0 – 13.0
5.12	Skin Powder	Matter insoluble in boiling water	SLS 389:Appendix C: 2014	10 – 99 %
		Fineness a) Residue on 75-µm sieve, percent by mass, max. Residue on 150-µm sieve, percent by mass, max.	SLS 389:Appendix D: 2014	0.05– 5%
		Moisture & volatile matter	SLS 389:Appendix E: 2014	0.5 – 5 %
		pH of aqueous suspension	SLS 389:Appendix F: 2014	3.0 – 13.0
5.13	Sanitary Towels	Absorbency	SLS 111:Appendix B: 2009	Not Applicable (Qualitative test)
		pH value	SLS 86: 2006	3.0 – 13.0
		Ash content	SLS 111:Appendix C: 2009	0.1 – 10 %
		Water soluble extract	SLS 111:Appendix D: 2009	0.1 – 8.0 %
		Moisture content	SLS 111:Appendix F: 2009	0.5 – 30 %
5.14	Hair shampoo	Active synthetic anionic ingredient content	SLS 1342:Appendix B: 2008	1.0 – 24 %
		pH at 27± 2°C	SLS 1342:Appendix C: 2008	3.0 – 13.0
		Inorganic salts	SLS 1342:Appendix D: 2008	1.0 – 25.0 %
		Lather volume	SLS 1342:Appendix E: 2008	10 – 150 ml
5.15	Hair shampoo for babies	Active synthetic anionic ingredient content	SLS 1342:Appendix B: 2008	1 – 24 %
		pH at 27± 2°C	SLS 1342:Appendix C: 2008	3.0 – 13.0
		Inorganic salts	SLS 1342:Appendix D: 2008	1 – 25 %
		Lather volume	SLS 1342:Appendix E: 2008	10 – 150 ml
5.16	Cosmetics (Skin Cream and Lotions, Skin Cream and Lotions for babies, Skin Powder for Babies, Skin Powder)	Lead	ISO/TR 17276:2014	4 - 100 mg/kg
		Arsenic		1 - 100 mg/kg
		Cadmium		1 - 100 mg/kg
		Mercury		0.1 – 5 mg/kg

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
6 Pesticide Residues				
6.1	Tea	Bifenthrin	LCHE/TM/SOP/001:Rev: 10	LOD 0.01 mg/kg
		Chlorothalonil		
		Chlorpyrifos		
		Hexaconazole		
		Propiconazole		
		Dicofol		
		Bromopropylate		
		Chlorfluzuron		
		Cypermethrin		
		Flusilazole		
		Ethion		
		Fenpropathrin		
		Fenthion		
		Malathion		
		Methidathion		
		Parathion- methyl		
		Tebuconazole		
		Tetradifon		
		Propagite		
		Endrin-ketone		
		alpha-HCH		
		beta-HCH		
		gamma-HCH		
		delta-HCH		
Imidachlorprid	LCHE/TM/SOP/064:Rev05			
4,4-DDD	LCHE/TM/SOP/001:Rev10			
4,4-DDE				
4,4-DDT				
Aldrin				

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
6.1	Tea	Dieldrin	LCHE/TM/SOP/001:Rev10	LOD 0.01 mg/kg
		alpha- Endosulfan	LCHE/TM/SOP/001:Rev10	
		Acetamiprid	LCHE/TM/SOP/064:Rev05	
		beta- Endosulfan	LCHE/TM/SOP/001:Rev10	
		Endosulfan sulfate	LCHE/TM/SOP/001:Rev10	
		Endrin	LCHE/TM/SOP/001:Rev10	
		Endrin aldehyde	LCHE/TM/SOP/001:Rev10	
		Permethrin	LCHE/TM/SOP/001:Rev10	
		Etaxazole	LCHE/TM/SOP/001:Rev10	
		Thiamethoxam	LCHE/TM/SOP/064:Rev05	
		Dichlorvos	LCHE/TM/SOP/001:Rev10	
		Fenubucarb	LCHE/TM/SOP/064:Rev05	
		Phenothoate	LCHE/TM/SOP/064:Rev05	
		Fipronil	LCHE/TM/SOP/064:Rev05	
		Clothianidin	LCHE/TM/SOP/064:Rev05	
		Flubendiamide	LCHE/TM/SOP/064:Rev05	
		Hexythiazox	LCHE/TM/SOP/064:Rev05	
Chlorfenvinphos	LCHE/TM/SOP/064:Rev05			
Metribuzin	LCHE/TM/SOP/001:Rev10			
6.2	Fruits and Vegetables	Aldrin	LCHE/TM/SOP/001:Rev10	
		4,4-DDE		
		4,4-DDD		
		4,4-DDT		
		Dieldrin		
		alpha-Endosulfan		
		beta-Endosulfan		
		Endosulfan-sulfate		
		Endrin		
		Endrin- aldehyde		
		Endrin-ketone		
		alpha-HCH		

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
6.2	Fruits and Vegetables	beta-HCH	LCHE/TM/SOP/001:Rev10	LOD 0.01 mg/kg
		gamma-HCH		
		delta-HCH		
		Heptachlor		
		Heptachlor-epoxide		
		Methoxychlor		
		Diuron	LCHE/TM/SOP/064:Rev05	
		Anthraquinone	LCHE/TM/SOP/001:Rev10	
		Diazinone	LCHE/TM/SOP/001/Rev 10	
		Oxyfluorefen	LCHE/TM/SOP/001/Rev 10	
		Acephate	LCHE/TM/SOP/064:/Rev 05	
		Acetamiprid		
		Imidachlorprid		
		Ethion	LCHE/TM/SOP/001/Rev 10	
		Fenpropathrin		
		Fenthion		
		Malathion		
		Methidathion		
		Parathion- methyl		
		Tebuconazole		
		Tetradifon		
		Propagite		
		Bifenthrin		
		Chlorothalonil		
		Chlorpyrifos		
		Hexaconazole		
		Propiconazole		
		Dicofol		
Bromopropylate				

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
6.2	Fruits and Vegetables	Chlorfluzuron	LCHE/TM/SOP/001/Rev10	LOD 0.01mg/kg
		Cypermethrin		
		Flusilazole		
		Permethrin		
		Etaxazole		
		Thiamethoxam	LCHE/TM/SOP/064/Rev05	
		Dichlorvos	LCHE/TM/SOP/001/Rev10	
		Fenubucarb	LCHE/TM/SOP/064/Rev05	
		Metribuzin	LCHE/TM/SOP/001/Rev10	
		Phenothoate	LCHE/TM/SOP/064/Rev05	
		Fipronil	LCHE/TM/SOP/064/Rev 05	
		Clothianidin		
		Flubendiamide		
		Hexythiazox		
Chlorfenvinphos				
6.3	RO water, Desalinated Water	Aldrin	APHA 6630:2017:Part C	LOQ = 0.01 µg/L
		4,4-DDE		
		4,4-DDD		
		4,4-DDT		
		Dieldrin		
		alpha-Endosulfan		
		beta-Endosulfan		
		Endosulfan-sulfate		
		Endrin		
		Endrin- aldehyde		

Director/CEO
Sri Lanka Accreditation Board for Conformity Assessment