

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



Valid from 20 June 2018
to 17 August 2018
Issued on 20 June 2018



ISO/IEC 17025
TL 004 - 01

Schedule of Accreditation

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

Accreditation Number : TL 004 – 01

Chemical and Microbiology
Laboratory Industrial Technology
Institute
N o.210 / 4, Wijerama Mawatha
Colombo 07.

Scope of Accreditation: Performing Chemical Testing on Products Categories of Food & Agricultural Products, Fertilizer and fertilizer products, Comatics, Waste Water & Water and Sampling of Waste Water & Water as per the Test Methods appearing in this Schedule.

The laboratory is accredited for the following tests.

SI NO	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
01	Cashew	Moisture (%)	SLS 405: 1976	0.1 – 20 % LoD 0.1%
		Grading	SLS 405: 1976	–
02	Fish	Lead	CML / MM /FISH 002/V 1.4	0.5 -5.0 mg/kg LoD 0.5 mg/kg
		Arsenic		0.05 -5.0 mg/kg LoD 0.05mg/kg
		Mercury		0.05 -5.0 mg/kg LoD 0.05mg/kg
		Cadmium		0.05 -5.0 mg/kg LoD 0.05mg/kg

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03	Tea	Moisture (%)	ISO 1573 - 1980 (E)	0.1 – 20.0 (%)
		Total Ash (%)	ISO 1575 – 1987 (E)	0.1– 20.0 (%)
		Water Soluble Ash (%)	ISO 1576 – 1988 (E)	0.1 – 10.0 (%)
		Alkalinity of Water soluble Ash (%)	ISO 1578 – 1975 (E)	0.1– 10.0 (%)
		Acid Insoluble Ash (%)	ISO 1577 – 1987 (E)	0.01 – 5 (%)
		Crude Fibre (%)	ISO:15598 – 1999 (E)	0.1 – 20.0 (%)
		Water Extract (%)	ISO 9768 – 1994 (E)	0.1- 80.0 (%)
04	Milk Powder	Vitamin A	CML/MM/03/05/001/V1.4	100-10000 µg/100g
05	Margarine	Vitamin A	CML/MM/03/05/001/V1.4	100-10000 µg/100g LoD 100 µg /100g
		Vitamin E		100-1000 µg/100g LoD 270 µg /100g
06	Fertilizer & Fertilizer Mixtures	Total Potassium (%)	SLS 645 : Part 4:1989	0.1-70.0 %
		Total Phosphorous (%)	SLS 645 : Part 5 :1985	0.1-50.0 %
		Total Nitrogen (%)	SLS 645 : Part 1:2009	0.1-50.0 %
07	Urea	Biuret (%)	SLS 645 : Part 3: 2009	0.1-1.5 %
		Total Nitrogen (%)	SLS 645 : Part 1:2009	0.1-50.0%

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08	Waste Water and Water	pH	APHA 4500 – H ⁺ B	1 – 12
		Electrical Conductivity	APHA 2510 B	1– 25000 (μS/cm)
		COD (closed reflux)	Modified APHA5220 -D	5 – 25 (mgO ₂ /L) 25 -1500 (mg O ₂ /L)
		Alkalinity	APHA 2320 B	> 1 (mg/L)
		Chloride	APHA 4500 – Cl ⁻ B	1 – 400 (mg/L)
		Total Hardness	APHA 2340 C	> 1 (mg/L)
		Total Dissolved Solids (Dried at 180°C)	APHA 2540 C	20– 4000 (mg/L)
		Total Solids (Dried at 103-105°C)	APHA 2540 B	20 – 4000 (mg/L)
		Total Suspended Solids (Dried at 103-105°C)	APHA 2540 D	1– 4000 (mg/L)
		Turbidity	APHA 2130 B	1.0 –1000 (NTU)
		BOD ₃ & BOD ₅	APHA 5210 D	15 – 350 (mg/L)
		Fluoride	APHA 4500 F C	0.1– 10.0 (mg/L)
		Total Iron	APHA 3500 – Fe B	0.1 – 2.0 (mg/L)
		Total Phosphorous as PO ₄	APHA 4500 P, B & C	1 – 20 (mg/L)
		Ammoniacal Nitrogen	APHA 4500 NH ₃ B& C	5- 100 (mg/L)
		Nitrate (Screening) as NO ₃ -N	APHA 4500 -NH ₃ . B	0.1 – 1.2 (mg/L)
		Nitrite	APHA 4500 –NO ₂ ⁻ B	0.01 – 1 (mg/L)
Sampling	APHA 1060 Modified (CML/MM/W & WS/022)	-		

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09	Skin Cream and Lotions	Non Volatile Matter	SLS 743	>0.02 % by mass
		Peroxide Value	CML/MM/05/03/01	0.1 miliequivalents/kg
		pH at 27 °C	SLS 743	4-10
		Thermal stability		Pass/ Fail
		Water Content		10 -99 % by mass
10	Baby Cream and Lotions	Non Volatile Matter	SLS 742	>0.02 % by mass
		Peroxide Value	CML/MM/05/03/01	0.1 miliequivalents/kg
		pH at 27 °C	SLS 742	4-10
		Thermal stability		Pass/ Fail
		Water Content		10 -99 % by mass
11	Shaving Cream	Water Content	SLS 796	10 -99 % by mass
		Non Volatile Matter		>0.02 % by mass
		Free Caustic Alkali		Pass/ Fail
		Lather Volume		> 4.0 ml
		Thermal stability		Pass/ Fail
12	Shampoo	Active Ingredient content	SLS 1346	>0.1 -99.5 % by mass
		Inorganic Salt		>0.2 % by mass
		pH at 27 °C		4-10
		Lather Volume		> 4.0 ml

SI NO.	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
13	Hair Cream	Non Volatile Matter	SLS 611	>0.1 % by mass
		Peroxide Value	CML/MM/05/03/01	>0.1 miliequivalents/kg
		pH at 27 °C	SLS 611	4-10
		Thermal stability		Pass/ Fail
		Water Content		10 -99 % by mass
14	Skin Powder	Moisture & Volatile matter	SLS 389	>0.02 % by mass
		pH of aqueous suspension		4-10
		Fineness		>0.01 % by mass
		Matter on soluble in boiling water		>0.1 % by mass
15	Baby Powder	Moisture & Volatile matter	SLS 187	>0.02 % by mass
		pH of aqueous suspension		4-10
		Fineness		>0.01 % by mass
		Matter on soluble in boiling water		>0.1 % by mass
16	Toothpaste	Moisture & Volatile matter	SLS 275	>0.05 % by mass
		pH		4-10
		Foaming Volume		>4.0ml
		Fluoride		50-5000ppm
		Fineness		>0.01 % by mass

SI NO.	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
17	Hair Oil	Peroxide Value	SLS 1341	>0.04 miliequivalents/kg
		Acid Value		Type 1 & 3 Oil – 2/g Type 2 Oil – Pass/Fail
18	Baby Oil	Peroxide Value	CML/MM/05/03/01	>0.1meq/kg
		Relative Density	SLS 1191	-
		Saponification Value		>1.0
		Acid Value		>0.2/g
19	Colognes, Perfumes, Aftershaves, Baby Colognes	Ethanol Content	CML/MM/05/02/01	>0.01-99 % v/v
		pH	CML/MM/05/02/02	4-10
20	Toilet Soap	Total Fatty Matter	SLS 34	>1.0 % by mass
		Total free Alkali		>0.4 % by mass
		Chlorides		>0.1 % by mass
		Free Caustic Alkali		>0.004 % by mass
		Matter on soluble in Ethanol		>0.02 % by mass
21	Bathing Bar	Total Fatty Matter	SLS 1220	>1.0 % by mass
		pH		4-10
		Free Caustic Alkali		>0.006 % by mass
		Mush		>0.5 % by mass
		Synthetic Surface active agent		>0.5 % by mass

SI NO.	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
22	Baby Soap	Total Fatty Matter	SLS 542	>1.0 % by mass
		Free Caustic Alkali		>0.004 % by mass
		Total free Alkali		>0.4 % by mass
		Freedom from Rosin		Pass/ Fail
		Chlorides		>0.1 % by mass
23	Liquid Toilet Soap	Total Fatty Matter	SLS 1142	>1.0 % by mass
		pH at 27 °C		4-10
		Matter on soluble in Ethanol		>0.02 % by mass
		Total free Alkali		>0.4 % by mass

Director /CEO
Sri Lanka Accreditation Board for Conformity Assessment