

Microbiology Testing Laboratory

Testing Facilities

Products

a) Beverages

Product	Standard	Test parameter
Ready to Serve Fruit Drinks	SLS 729	APC/ml Coliforms MPN /ml Yeasts & Moulds /ml
Non Carbonated Synthetic / Artificial Flavoured Cordials & Beverages	SLS 221	APC/ml Coliforms MPN/ml Yeasts & Moulds /ml
Beer	SLS 234	Coliforms MPN/ml
Fruit juice and Nectars	SLS 1328	APC/ml Coliforms MPN/ml Yeasts & Moulds /ml
Carbonated beverages	SLS 183	APC/ml Coliforms MPN/ml Yeasts & Moulds /ml

b) Biscuits

Product	Standard	Test parameter
Biscuits (Cream)	SLS 251	APC / g Coliforms MPN/g <i>E. coli</i> MPN/g <i>Staph. aureus</i> /g <i>Salmonella</i> /25 g Yeasts & Moulds /g
Wafers	SLS 1313	Coliforms MPN/g <i>E. coli</i> MPN/g <i>Staph. aureus</i> /g <i>Salmonella</i> /25 g Yeasts & Moulds /g

c) Cereal based Foods

Product	Standard	Test parameter
Cereal based Food for Infants & Children	SLS 1036	APC/g Coliforms /g <i>E. coli</i> /g Yeasts & Moulds /g <i>Salmonella</i> /25 g
Kurakkan Flour Rice Flour	SLS 928 SLS 913	Mould Count/g
Instant thosai mix / Thosai mix and Instant Idly mix / Idly mix	SLS 1629	Mould Count/g
Textured soya protein	SLS 898	APC/g Coliforms MPN/g <i>E. coli</i> MPN /g Yeasts & Moulds /g <i>Salmonella</i> /25 g

d) Cosmetics

Product	Standard	Test parameter
Tooth paste	SLS 275	APC/g <i>E. coli</i> / 10g <i>Salmonella</i> /10 g
Baby Oil Hair Cream	SLS 1191 SLS 742 SLS 796	APC/g <i>Staph. aureus</i> /10g <i>P. aerogenosa</i> / 10g
Lotion & Skin Cream Lotion & Skin Cream for babies	SLS 743 SLS 742	Aerobic mesophylic microorganisms /10g <i>Staph. aureus</i> /10g <i>P. aerogenosa</i> / 10g <i>E. coli</i> MPN/10g <i>Candida albicans</i> / 10g
Shaving cream	SLS 796	APC/10g <i>Staph. aureus</i> /10g <i>Pseudomonas aerogenosa</i> /10g
Skin Powder for babies	SLS 187	APC/10g <i>Staph. aureus</i> /10g <i>Pseudomonas aerogenosa</i> /g Yeasts & Moulds /10g
Skin Powder	SLS 389	Aerobic mesophylic microorganisms /10g <i>Staph. aureus</i> /10g <i>P. aerogenosa</i> / 10g <i>E. coli</i> MPN/10g <i>Candida albicans</i> / 10g
Sanitary towels (Maternity, Herbal)	SLS 111	APC/g <i>Staph. aureus</i> / unit <i>P. aerogenosa</i> / unit Yeasts & Moulds /unit
Hair shampoo for babies Liquid Toilet Soap	SLS 1342 SLS 1142	APC/ml <i>Staph. aureus</i> /10 ml <i>P. aerogenosa</i> /10 ml
Hair shampoo	SLS 1346	Aerobic mesophylic microorganisms /10g <i>Staph. aureus</i> /10g <i>P. aerogenosa</i> / 10g <i>E. coli</i> MPN/10g <i>Candida albicans</i> / 10g
Hand sanitizer	SLS 1657	Microbiology efficacy test
Baby cologne	SLS 589	Aerobic mesophylic microorganisms /10g <i>Staph. aureus</i> /10g <i>P. aerogenosa</i> / 10g <i>E. coli</i> MPN/10g <i>Candida albicans</i> / 10g

e) Dairy Products

Product	Standard	Test parameter
Butter	SLS 279	Coliforms/g Yeasts/g Moulds/g
Condensed milk	SLS 179	APC/g Coliforms MPN/g <i>E. coli</i> MPN /g <i>Staph. aureus</i> /g Yeasts & Moulds /g Shelf life test
Curd	SLS :824 : pt 2	Coliforms MPN/g <i>E. coli</i> MPN/g

		<i>Staph. aureus</i> /g <i>Salmonella</i> /25 g <i>Listeria monocytogenes</i> Yeasts /g Moulds /g
Cheese	SLS 773	<i>E. coli</i> /g Yeasts & Moulds /g <i>Staph. aureus</i> /g
Ice cream	SLS 223	APC/g Coliforms MPN/g <i>E. coli</i> MPN/g <i>Staph. aureus</i> /g <i>Salmonella</i> /25 g <i>Listeria monocytogenes</i>
Milk powder	SLS 731	APC/g Coliforms MPN/g <i>E. coli</i> MPN/g <i>Staph. aureus</i> /g <i>Salmonella</i> /25 g
Yoghurt	SLS 824 Pt 2	Coliforms MPN/g <i>E. coli</i> MPN/g <i>Staph. aureus</i> /g <i>Salmonella</i> /25 g <i>Listeria monocytogenes</i> Yeasts /g Moulds /g
Milk added drinks	SLS 917	APC/ml Coliforms /100 ml <i>E. coli</i> /100 ml sterility test

f) Fishery Products

Product	Standard	Test parameter
Canned fish	SLS 591	Commercial sterility
Dried fish	SLS 643	APC/g Coliforms/g <i>E. coli</i> /g <i>Staphylococcus aureus</i> /g Yeasts & Moulds /g
Fish (Whole Fish, Fish Fillets, Steaks & Minced meat)	SLS 1141	APC/g Coliforms/g <i>Staph. aureus</i> /g <i>Salmonella</i> /25 g
Quick Frozen Shrimps/Prawns	SLS 10	APC/g <i>E. coli</i> MPN/g <i>Staph. aureus</i> /g <i>Salmonella</i> /25 g
Canned fish curry	SLS 1106	Commercial sterility

g) Freeze Drinks

Product	Standard	Test parameter
Frozen Confections and Freeze drinks (Ice lollies)	SLS 967	APC/g Coliforms/g <i>Salmonella</i> /25 g

h) Margarine

Product	Standard	Test parameter
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Fat spreads & Blended fat spreads (Margarine)	SLS 1427	APC/g Coliforms /g Yeasts/g Moulds/g Lipolytic organisms / g
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i) Meat Products

Product	Standard	Test parameter
Bacon/Ham	SLS 342 SLS 1146	<i>E. coli</i> /g <i>Staph. aureus</i> /g <i>Salmonella</i> /25 g
Comminuted Meat Products (Sausages/ Meat Balls etc.)	SLS 1218	<i>E. coli</i> /g <i>Staph. aureus</i> /g <i>Salmonella</i> /25 g
Poultry meat (frozen)	SLS 1161	APC/g <i>Staph. aureus</i> /g <i>Salmonella</i> /25 g

j) Sauce & Jams

Product	Standard	Test parameter
Chutney (Mango)	SLS 446	Howard Mould count
Jams, Jellies and Marmalades	SLS 265	Howard Mould Count
Sauce/Ketchup (Tomato/Chilli)	SLS 260 SLS 581	Howard Mould count

k) Tea

Product	Standard	Test parameter
Tea	SLS 516 Pt: 1, 2, 3, 5, 12	APC/g Coliforms MPN/g <i>E. coli</i> MPN/g <i>Salmonella</i> /25 g Yeasts & Moulds /g

l) Coconut products

Product	Standard	Test parameter
Coconut oil	SLS 32	Yeasts & Moulds /g
Coconut milk	SLS 1365 Pt: 1	Commercial sterility
Coconut cream and Coconut paste	SLS 1365 Pt: 2	APC/g Coliforms MPN/g <i>E. coli</i> MPN/g <i>Salmonella</i> /25 g Yeasts & Moulds /g

M) Spices

Product	Standard	Test parameter
Curry powder	SLS 134	<i>E. coli</i> MPN/g <i>Salmonella</i> /25 g Yeasts & Moulds cfu /g
Turmeric whole and ground	SLS 613	<i>Salmonella</i> /25 g Moulds cfu /g
Chilli whole and ground	SLS 1563	<i>E. coli</i> MPN/g <i>Salmonella</i> /25 g Yeasts & Moulds cfu /g

N) Water

Product	Standard	Test parameter
Bottle rinse test	APHA test methods	APC/container Coliforms/container <i>E.coli</i> /container
Bottled Drinking Water	SLS 894	APC/ml Coliforms MPN/100 ml <i>E.coli</i> MPN /100 ml
Bottled Natural Mineral water	SLS 1038	APC/ml @ 22 °C APC/ml @ 37 °C Coliforms/250 ml <i>E. coli</i> /250 ml Faecal Streptococci/250ml <i>P.aeruginosa</i> /250 ml <i>Clostridia</i> /50ml
Potable water	SLS 614	Coliforms MPN /100 ml <i>E.coli</i> MPN/100 ml
Ice for use in processing & Catering Industries	SLS 971	APC/ml Coliforms MPN /100ml <i>E.coli</i> MPN /100 ml
Ice (for EU requirements)		APC/ml @ 22 °C APC/ml @ 37 °C Coliforms/100 ml Faecal Coliforms/100 ml <i>E. coli</i> /100 ml Faecal Streptococci/100ml
Water (for EU requirements)		APC/ml @ 22 °C APC/ml @ 37 °C Coliforms/100 ml Faecal Coliforms/100 ml <i>E. coli</i> /100 ml Faecal Streptococci/100ml

Test Methods

Test description		SLS Standard	Equivalent International Standard
✓	Aerobic plate Count	SLS 516 - part 1	ISO 4833
✓	Yeast & Mould Count	SLS 516 - part 2	ISO 21527
✓	Coliforms, Faecal Coliforms & <i>E. coli</i>	SLS 516 - part 3 SLS 1461 - Part 1	ISO 4831 ISO 7251 ISO 9308
✓	Faecal streptococci	SLS 516 - part 4	-
✓	<i>Salmonella</i>	SLS 516 - part 5	ISO 6579
✓	<i>Staphylococcus aureus</i>	SLS 516 - part 6	ISO 6888- part 1
✓	<i>Vibrio</i> spp.	SLS 516 - part 7	-
✓	<i>Bacillus cereus</i>	SLS 516 - part 8	-
✓	<i>Clostridium</i> spp.	SLS 516 - part 9	-
✓	Commercial Sterility	SLS 516 - part 10	-
✓	Lipolytic organisms	SLS 516 - part 11	-
✓	Intestinal enterococci	-	ISO 7899- part 2

SLSI Microbiology laboratory has been accredited by Sri Lanka Accreditation Board (SLAB) for Water/ Ice, Desiccated Coconut, Ice cream, Milk Products, Fishery Products, Meat products, Heat Processed foods, Vegetable Products, Canned Foods, Poultry Products, Edible Oils and Derived Products, Tea and Beverages.



ISO/IEC 17025

TL 016 - 02

Certificate of Accreditation

(<https://slsi.lk/web/wp-content/uploads/2023/01/FinalCertificate-TL-016-02-SLSI-Micro.pdf>)

Scope of Accreditation

(<https://slsi.lk/web/wp-content/uploads/2023/01/Final-Final-Scope-updated-Micro-Lab-SLSI.pdf>)