

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	31.07.2015
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	DRUGS & PHARMACEUTICALS			
1.	NATURAL DRUGS			
a.	Asava&Arishta (Fermented Liquids) (Asokarishtam, Abhayarishtam, Aravindasavam, Chandanasavam, Dashamularishta, Draksharishtam, Kutajarishtam, Kanakasavam Lodhrasavam, Punarnavasam etc.)	Total aerobic count	API 2008	10 cfu/ml to 10 ⁵ cfu/ml
		Total yeast and mold count	API 2008	10 cfu/ml to 10 ³ cfu/ml
		E. coli	API 2008	Qualitative (Presence/Absence)/10 ml
		Salmonella sp.	API 2008	Qualitative (Presence/Absence) /g
		Pseudomonas aeruginosa	API 2008	Qualitative (Presence/Absence) /g
	Staphylococcus aureus	API 2008	Qualitative (Presence /Absence)/g	
b.	Avaleha/ Lehyam (Confectionary/ semi solid) Agastyarasayanam, Aswagandhad-ilehyam, Brahma rasayanam, Dashamoola-rasayanam, Chyavanaprasam, Marichadilehyam, Narasimhara-sayanam, Sathavarigulam, Sukumaralehyam, Vilwadilehyam etc.	Total aerobic count	API 2008	10 cfu/ml to 10 ⁵ cfu/ml
		Total yeast and mold count	API 2008	10 cfu/ml to 10 ³ cfu/ml
		E. coli	API 2008	Qualitative (Presence/Absence)/10 g
		Salmonella sp.	API 2008	Qualitative (Presence/Absence) /g
		Pseudomonas aerugina	API 2008	Qualitative (Presence/Absence) /g
	Staphylococcus aureus	API 2008	Qualitative (Presence/Absence)/g	

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c.	Chooranam (Coarse/fine powder) Avipattikarachooranam, Ashtachooranam, Dadimastakachooranam, Guggulupanchapala choornam, Hinguvastakachooranam,	Total aerobic count	API 2008	10 cfu/ml to 10 ⁵ cfu/ml
		Total yeast and mold count	API 2008	10 cfu/ml to 10 ³ cfu/ml
		E. coli	API 2008	Qualitative (Presence /Absence)/10 g
		Salmonella sp.	API 2008	Qualitative (Presence /Absence)/g
		Pseudomonas aeruginosa	API 2008	Qualitative (Presence /Absence) /g
d.	Lepa/ Medicated wax/ Cream Avalgudilepa, Dashangalepa, Kumkumadilepa, Indraluptalepa, Rasottamadilepa, Sukantilepam, Vatarilepam etc.	Total aerobic count	API 2008	10 cfu/ml to 10 ⁷ cfu/ml
		Total yeast and mold count	API 2008	10 cfu/ml to 10 ³ cfu/ml
		E.coli	API 2008	Qualitative (Presence /Absence)/10 g
		Salmonella sp	API 2008	Qualitative (Presence /Absence)/g
		Pseudomonas aeruginosa	API 2008	Qualitative (Presence /Absence)/g
		Staphylococcus aureus	API 2008	Qualitative (Presence /Absence)/g

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e.	Plant extract	Total aerobic count	API 2008	10 cfu/ml to 10 ⁷ cfu/ml
		Total yeast and mold count	API 2008	10 cfu/ml to 10 ³ cfu/ml
		E.coli	API 2008	Qualitative (Presence /Absence)/10 ml
		Salmonella sp.	API 2008	Qualitative (Presence /Absence)/g
		Pseudomonas aeruginosa	API 2008	Qualitative (Presence /Absence)/g
		Staphylococcus aureus	API 2008	Qualitative (Presence /Absence)/g
f.	Bhasma (Processed fine powder) Abhakabhasma, Naga bhasma, Vangabhasma, Shankabhasma, Tamrabhasma, Mandoorabhasma, Lohabhasma etc.	Total aerobic count	API 2008	10 cfu/ml to 10 ⁵ cfu/ml
		Total yeast and mold count	API 2008	10 cfu/ml to 10 ³ cfu/ml
		E. coli	API 2008	Qualitative (Presence /Absence)/10 g
		Salmonella sp.	API 2008	Qualitative (Presence /Absence)/g
		Pseudomonas aeruginosa	API 2008	Qualitative (Presence /Absence)/g
		Staphylococcus aureus	API 2008	Qualitative (Presence /Absence)/g

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
g.	Sharkarasiktha/ Siruthugalgal (Granules) Haridrakhandam, Thaleesapatradivatakam, Ayur Manna, C-Health granules, Sitopaladivatakam	Total aerobic count	API 2008	10 cfu/ml to 10 ⁵ cfu/ml
		Total yeast and mold count	API 2008	10 cfu/ml to 10 ³ cfu/ml
		E. coli	API 2008	Qualitative (Presence /Absence)/10 g
		Salmonella sp.	API 2008	Qualitative (Presence /Absence) /g
		Pseudomonas aeruginosa	API 2008	Qualitative (Presence /Absence)/g
h.	Sharbat/ Manappagu (Syrup) Krishna thulasi cough syrup, Menorex syrup, Lungs clear syrup, Soolari syrup etc.	Total aerobic count	API 2008	10 cfu/ml to 10 ⁵ cfu/ml
		Total yeast and mold count	API 2008	10 cfu/ml to 10 ³ cfu/ml
		E. coli	API 2008	Qualitative (Presence /Absence)/10 ml
		Salmonella sp.	API 2008	Qualitative (Presence /Absence)/g
		Pseudomonas aeruginosa	API 2008	Qualitative (Presence /Absence)/g
		Staphylococcus aureus	API 2008	Qualitative (Presence /Absence)/g

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
i.	Raw plant material Acoruscalamus, Curcuma longa, Coriandrum sativum Cuminumcyminum, Emblicaofficinalis, Piper longum, Piper nigrum, Nigella sativum, Terminaliabellerica, Terminaliachebula, Terminaliaarjuna, Zingiberofficinale etc.	Total aerobic count	API 2008	10 cfu/ml to 10 ⁷ cfu/ml
		Total yeast and mold count	API 2008	10 cfu/ml to 10 ³ cfu/ml
		E. coli	API 2008	Qualitative (Presence /Absence)/10 g
		Salmonella sp.	API 2008	Qualitative (Presence /Absence)/g
		Pseudomonas aeruginosa	API 2008	Qualitative (Presence /Absence)/g
j.	Vati/ Gutika (Tablet/ Pills) Chandraprab- hagulika, Dhanvantara- mgulika, Hinguvachadigulika Marmanigulika, Kaisoraguggulu, Sanjeevanivati, Sukhabhedigulika, Virechanagulika, Vilwadigulika, Yogarajaguggulu etc.	Total aerobic count	API 2008	10 cfu/ml to 10 ⁵ cfu/ml
		Total yeast and mold count	API 2008	10 cfu/ml to 10 ³ cfu/ml
		E.coli	API 2008	Qualitative (Presence /Absence)/10 g
		Salmonella sp.	API 2008	Qualitative (Presence /Absence)/g
		Pseudomonas aeruginosa	API 2008	Qualitative (Presence /Absence)/g
		Staphylococcus aureus	API 2008	Qualitative (Presence /Absence)/g

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
k.	Tailas/ Ghritas/ (Medicate oil and Ghee) Anutailam, Balatailam, Brahmighrtam, Dhanvantharamkuzhampu, Eladikeram, Dadimadighrtam, Karpooraditailam, Neelibhrngadikeratailam, Sahacharakuzhambu, Vidaryadighrtam etc.	Total aerobic count	API 2008	10 cfu/ml to 10 ⁵ cfu/ml
		Total yeast and mold count	API 2008	10 cfu/ml to 10 ³ cfu/ml
		E. coli	API 2008	Qualitative (Presence /Absence)/10 ml
		Salmonella sp.	API 2008	Qualitative (Presence /Absence)/g
		Pseudomonas aeruginosa	API 2008	Qualitative (Presence /Absence)/g
		Staphylococcus aureus	API 2008	Qualitative (Presence /Absence)/g
II. FOOD & AGRICULTURAL PRODUCTS				
1.	Spices and Condiments	Total aerobic count	USFDA BAM (8 th Edition) Chapter. 3	10 cfu/g to 10 ⁶ cfu/g
		Total yeast and mold count	USFDA BAM (8 th Edition) Chapter. 18	10 cfu/g to 10 ⁴ cfu/g
		E. coli	USFDA BAM (8 th Edition): 2002, Chapter. 4	≥3 MPN/g to >1660 MPN/g & ≥0.9 MPN/g to >2300 MPN/g
		Salmonella sp.	USFDA BAM (8 th Edition): 2014, Chapter. 5	Qualitative (Presence/Absence)

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	Spices and Condiments	Staphylococcus aureus	USFDA BAM (8 th Edition): 2001, Chapter. 12	10 cfu/g to 10 ⁴ cfu/g
2.	Bakery and confectionary products	Total aerobic count	USFDA BAM (8 th Edition): Chapter. 3	10 cfu/g to 10 ⁶ cfu/g
		Total yeast and mold count	USFDA BAM (8 th Edition) Chapter. 18	10 cfu/g to 10 ⁴ cfu/g
		E.coli	USFDA BAM (8 th Edition): 2002, Chapter. 4	≥3 MPN/g to >1660 MPN/g, ≥0.9 MPN/g to >2300 MPN/g
		Salmonella sp.	USFDA BAM (8 th Edition): 2014, Chapter. 5	Qualitative (Presence /Absence)/25 g
		Staphylococcus aureus	USFDA BAM (8 th Edition): 2001, Chapter. 12	10 cfu/gm to 10 ⁴ cfu/gm
3.	Cereals, Pulses and byproducts	Total aerobic count	USFDA BAM (8 th Edition) Chapter. 3	10 cfu/g to 10 ⁶ cfu/g
		Total yeast and mold count	USFDA BAM (8 th Edition) Chapter. 18	10 cfu/g to 10 ⁴ cfu/g
		E.coli	USFDA BAM (8 th Edition): 2002, Chapter. 4	≥3 MPN/g to >1660 MPN/g, ≥0.9 MPN/g to >2300 MPN/g
		Salmonella sp.	USFDA BAM (8 th Edition): 2014, Chapter. 5	Qualitative (Presence/Absence)/25 g
		Staphylococcus aureus	USFDA BAM (8 th Edition): 2001, Chapter. 12	10 cfu/g to 10 ⁴ cfu/g

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
4.	Honey & honey products	Total aerobic count	FDA BAM (8 th Edition) Chapter. 3	10 cfu/g to 10 ⁶ cfu/g
		Total yeast and mold count	FDA BAM (8 th Edition) Chapter. 18	10 cfu/g to 10 ⁴ cfu/g
		E. coli	FDA BAM (8 th Edition): 2002, Chapter. 4	≥3 MPN/g to >1660 MPN/g, ≥0.9 MPN/g to >2300 MPN/g
		Salmonella sp.	FDA BAM (8 th Edition): 2014, Chapter. 5	Qualitative (Presence /Absence)/25 g
		Staphylococcus aureus	FDA BAM (8 th Edition): 2001, Chapter. 12	10 cfu/g to 10 ⁴ cfu/g
5.	Tea and tea products	Total aerobic count	FDA BAM (8 th Edition) Chapter. 3	10 cfu/g to 10 ⁶ cfu/g
		Total yeast and mold count	FDA BAM (8 th Edition) Chapter. 18	10 cfu/g to 10 ⁴ cfu/g
		E.coli count	FDA BAM (8 th Edition): 2002, Chapter. 4	≥3 MPN/g to >1660MPN/g, ≥0.9 MPN/g to >2300MPN/g
		Salmonella sp.	FDA BAM (8 th Edition): 2014, Chapter. 5	Qualitative (Presence /Absence)/25 g
		Staphylococcus aureus	FDA BAM (8 th Edition): 2001, Chapter. 12	10 cfu/gm to 10 ⁴ cfu/gm

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6.	Coffee, cocoa and by products	Total aerobic count	FDA BAM (8 th Edition) Chapter. 3	10 cfu/gm to 10 ⁶ cfu/g
		Total yeast and mold count	FDA BAM (8 th Edition) Chapter. 18	10 cfu/gm to 10 ⁴ cfu/g
		E. coli	FDA BAM (8 th Edition): 2002, Chapter. 4	≥3 MPN/g to >1660 MPN/g, ≥0.9 MPN/g to >2300 MPN/g
		Salmonella sp.	FDA BAM (8 th Edition): 2014, Chapter. 5	Qualitative (Presence /Absence)/25 g
		Staphylococcus aureus	FDA BAM (8 th Edition): 2001, Chapter. 12	10 cfu/g to 10 ⁴ cfu/g
7.	Nuts and Nut products	Total aerobic count	FDA BAM (8 th Edition) Chapter. 3	10 cfu/g to 10 ⁶ cfu/g
		Total yeast and mold count	FDA BAM (8 th Edition) Chapter. 18	10 cfu/g to 10 ⁴ cfu/g
		E. coli	FDA BAM (8 th Edition): 2002, Chapter. 4	≥3 MPN/g to >1100 MPN/g, ≥0.9 MPN/g to >2300 MPN/g
		Salmonella sp.	FDA BAM (8 th Edition): 2014 Chapter. 5	Qualitative (Presence/Absence)/25 g
		Staphylococcus aureus	FDA BAM (8 th Edition): 2001, Chapter. 12	10 cfu/g to 10 ⁴ cfu/g
8.	Fruits, Vegetables & related Products	Total aerobic count	FDA BAM (8 th Edition) Chapter. 3	10 cfu/g to 10 ⁶ cfu/g
		Total yeast and mold count	FDA BAM (8 th Edition) Chapter. 18	10 cfu/g to 10 ⁴ cfu/g

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	Fruits, Vegetables & related Products	E. coli	FDA BAM (8 th Edition): 2002, Chapter. 4	≥3 MPN/g to >1660 MPN/g, ≥0.9 MPN/g to >2300 MPN/g
		Salmonella sp.	FDA BAM (8 th Edition): 2014, Chapter. 5	Qualitative (Presence /Absence)/25 g
		Staphylococcus aureus	FDA BAM (8 th Edition): 2001, Chapter. 12	10 cfu/g to 10 ⁴ cfu/g
III.	WATER			
1.	Potable and Domestic	Total Coliform (MF)	ISO 9308 -1: 1990	Qualitative (Presence/Absence)/100ml
		E. coli (MF)	ISO 9308-1: 1990	Qualitative (Presence/Absence)/100ml
		Total coli forms MPN	APHA (22 nd Edition): 2012	≥1.1 MPN to >1100 MPN /100 ml
		Fecal coliforms	APHA (22 nd Edition): 2012	>1.1 MPN to >1100 MPN /100 ml
		E. coli	APHA (22 nd Edition): 2012	≥1.1 MPN to >1100 MPN /100 ml

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