

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	1 of 33

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 (Medicinal Plant Preparations)			
a.	Asava&Arishta (Fermented Liquids) (Asokarishtam, Abhayarishtam, Aravindasavam, Chandanasavam, Dashamularishta, Draksharishtam, Kutajarishtam, Kanakasavam, Lodhrasavam, Punarnavasam etc.)	pH	API (Part 1) Vol.1, (1 st Edition) Page 156	1 to 14
Total solids		IP 2014, Vol.1, Page 277	0.05 % to 90.0 %	
Specific gravity		API (Part 1) Vol.1, (1 st Edition) Page 161	0.5 to 2.0	
Alcohol content		IP 2014, Vol.1, Page 116	0.5 % to 50 %	
Total acidity		IS 2860: 1964, Page 10-11	0.01 % to 15 %	
Reducing Sugar		API (Part 1) Vol.VI (1 st Edition) Page 340	0.5 % to 75.0 %	
Total sugar		API (Part 1) Vol.VI, (1 st Edition) Page 337	0.5 % to 85 %	
Lead		CKL/ANL/AY-008 Issue No. 1 Issue Date - 01.05.2014	0.05 mg/kg to 100 mg/kg	
Arsenic		CKL/ANL/AY-008 Issue No. 1 Issue Date - 01.05.2014	0.05 mg/kg to 100 mg/kg	
Mercury		CKL/ANL/AY-008 Issue No. 1 Issue Date - 01.05.2014	0.05 mg/kg to 100 mg/kg	
Cadmium	CKL/ANL/AY-008 Issue No. 1 Issue Date - 01.05.2014	0.05 mg/kg to 100 mg/kg		

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	2 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
b.	Avaleha/Lehyam (Confectionary/ semi solid) Agastyarasayanam, Aswagandhadilehyam, Brahma rasayanam, Dashamoolarasayanam, Chyavanaprasam, Marichadilehyam, Narasimharasayanam, Sathavarigulam, Sukumaralehyam, Vilwadilehyam etc.	Loss on Drying at 105 °C	API Part 1, Vol.1, 1 st Edition) Page 162	0.1 % to 50.0 %
		Total Ash	IP 2014, Vol.1, Page 98	0.05 % to 30.0 %
		Acid insoluble ash	IP 2014, Vol.1, Page 98	0.05 % to 5.0 %
		Alcohol soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 95.0 %
		Water soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 95.0 %
		pH (10% aqueous extract)	API (Part 1) Vol.1, (1 st Edition) Page 156	1 % to 14 %
		Total acidity	IS 2860: 1964, Page 10-11	0.01 to 20
		Total solids	IP 2014, Vol.1, Page 277	0.05 % to 90.0 %
		Total Fat	IS 2711: 1989	0.5 % to 70 %
		Reducing Sugar	API (Part 1) Vol.VI (1 st Edition) Page 340	1.0 % to 65.0 %
		Total Sugar	API (Part 1) Vol.VI (1 st Edition) Page 337	1.0 % to 75.0 %
		Lead	CKL/ANL/AY-008 Issue No. 1	0.05 mg/kg to 100 mg/kg
		Mercury	Issue Date - 01.05.2014	0.05 mg/kg to 100 mg/kg
	Cadmium		0.05 mg/kg to 100 mg/kg	
	Arsenic		0.05 mg/kg to 100 mg/kg	

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	3 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Avaleha/Lehyam (Confectionary/ semi solid) Agastyarasayanam, Aswagandhadilehyam, Brahma rasayanam, Dashamoolarasayanam, Chyavanaprasam, Marichadilehyam, Narasimharasayanam, Sathavarigulam, Sukumaralehyam, Vilwadilehyam etc.	Organochlorine Pesticides		
		Alachlor	CKL/ANL/AY-020 Issue No. 1 Issue Date - 01.05.2014	50.0 µg/l to 500 µg/l
		Aldrin		
		Dieldrin		
		Bromopropylate		
		Alfa BHC		
		Beta BHC		
		Gamma BHC		
		Delta BHC		
		Alfa Endosulfan		
		Beta Endosulfan		
		Endosulfan sulfate		
		2,4-DDT		
		4,4'-DDT		
		Heptachlor		
	Heptachlorepoxyde			

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	4 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Avaleha/Lehyam (Confectionary/ semi solid) Agastyarasayanam, Aswagandhadilehyam, Brahma rasayanam, Dashamoolarasayanam, Chyavanaprasam, Marichadilehyam, Narasimharasayanam, Sathavarigulam, Sukumaralehyam, Vilwadilehyam etc.	Organophosphorus Pesticides		
		Chlorfenvinphos	CKL/ANL/AY-020 Issue No. 1 Issue Date - 01.05.2014	50.0 µg/l to 500 µg/l
		Methidathion		
		Phosalone		
		Fenitrothion		
		Diazinon		
		Pyrethroids		
		Cis-permethrin	CKL/ANL/AY-020 Issue No. 1 Issue Date - 01.05.2014	50.0 µg/l to 500 µg/l
		Trans-permethrin		
		Alfa-cypermethrin		
		Fenprothrin		
		Fenvalerate		
	Piperonylbutoxide			
c.	Lepa/ Medicated wax/ Cream Avalgjadilepa, Dashangalepa, Kumkumadilepa, Indraluptalepa, Rasottamadilepa, Sukantilepam, Vatarilepam etc.	Total acidity	IS 5481: 1976	0.01 % to 10 %
		Loss on Drying at 105 °C	IS 5481: 1976	0.1 % to 5.0 %
		Rancidity Test	IS 5481: 1976	Qualitative (Present/Absent)
		Total Fat	IS 5481: 1976	0.5 % to 95 %

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	5 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Lepa/ Medicated wax/ Cream Avalgjadilepa, Dashangalepa, Kumkumadilepa, Indraluptalepa, Rasottamadilepa, Sukantilepam, Vatarilepam etc.	Lead	CKL/ANL/AY-008 Issue No. 1	0.05 mg/kg to 100 mg/kg
		Arsenic	Issue Date - 01.05.2014	0.05 mg/kg to 100 mg/kg
		Mercury		0.05 mg/kg to 100 mg/kg
		Cadmium		0.05 mg/kg to 100 mg/kg
d.	Choornam (Coarse/fine powder) Avipattikara-choornam, Ashtachoornam, Dadimastaka-choornam, Guggulupanchapalac hoornam, Hinguvastaka-choornam, Panchakola-choornam, Sitopaladichoornam, Triphalachoornam, Varanadikashayachornam etc.	Loss on Drying at 105 °C	API (Part 1, Vol.1, 1 st Edition): Page 162	0.1 % to 30.0 %
		Total Ash	IP 2014, Vol.1, Page 98	0.05 % to 20.0 %
		Acid insoluble ash	IP 2014, Vol.1, Page 98	0.05 % to 5.0 %
		Alcohol soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 75.0 %
		Water soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 75.0%
		Bulk Density	USP 2011, Vol.1, Page 242	0.3 g/ml to 2 g/ml
		Tap Density	USP 2011, Vol.1, Page 242	0.3 g/ml to 2 g/ml
		pH (10% aqueous extract)	API (Part 1) Vol.1, (1 st Edition) Page 156	3 to 8
		Lead	CKL/ANL/AY-008 Issue No. 1	0.05 mg/kg to 100 mg/kg
		Arsenic	Issue Date - 01.05.2014	0.05 mg/kg to 100 mg/kg
		Mercury		0.05 mg/kg to 100 mg/kg
		Cadmium		0.05 mg/kg to 100 mg/kg

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	6 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Choornam (Coarse/fine powder) Avipattikara-choornam, Ashtachoornam, Dadimastaka-choornam, Guggulupanchapalac hoornam, Hinguvastaka-choornam, Panchakola-choornam, Sitopaladichoornam, Triphalachoornam, Varanadikashayachornam etc.	Organochlorine Pesticides		
		Alachlor	CKL/ANL/AY-020	50.0 µg/l to 500 µg/l
		Aldrin	Issue No. 1	
			Issue Date - 01.05.2014	
		Dieldrin		
		Bromopropylate		
		Alfa BHC		
		Beta BHC		
		Gamma BHC		
		Delta BHC		
		Alfa Endosulfan		
		Beta Endosulfan		
		Endosulfan sulfate		
		2,4-DDT		
	4,4'-DDT			
	Heptachlor			
	Heptachlorepoxyde			

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	7 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Choornam (Coarse/fine powder) Avipattikara-choornam, Ashtachoornam, Dadimastaka-choornam, Guggulupanchapalac hoornam, Hinguvastaka-choornam, Panchakola-choornam, Sitopaladichoornam, Triphalachoornam, Varanadikashayachornam etc.	Organophosphorus Pesticides		
		Chlorfenvinphos	CKL/ANL/AY-020 Issue No. 1	50.0 µg/l to 500 µg/l
		Methidathion	Issue Date - 01.05.2014	
		Phosalone		
		Fenitrothion		
		Diazinon		
		Pyrethroids		
		Cis-permethrin	CKL/ANL/AY-020 Issue No. 1	50.0 µg/l to 500 µg/l
		Trans-permethrin	Issue Date - 01.05.2014	
		Alfa-cypermethrin		
	Fenpropathrin			
	Fenvalerate			
	Piperonylbutoxide			
e.	Plant extract Dried/wet	Loss on Drying at 105 °C	API (Part 1) Vol.1, (1 st Edition) Page 162	0.1 % to 90.0 %
		Total Ash	IP 2014, Vol.1, Page 98	0.05 % to 20.0 %
		Acid insoluble ash	IP 2014, Vol.1, Page 98	0.05 % to 5.0 %
		Alcohol soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 75.0 %

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	8 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Plant extract Dried/wet	Water soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 75.0 %
		Bulk Density	USP 2011, Vol.1, Page 242	0.5 g/ml to 2 g/ml
		Tap Density	USP 2014, Vol.1, Page 242	0.3 g/ml to 2 g/ml
		pH (10% aqueous extract)	API (Part 1) Vol.1, (1 st Edition) Page 156	1 to 14
		Organochlorine Pesticides		
		Alachlor	CKL/ANL/AY-020 Issue No. 1	50.0 µg/l to 500 µg/l
		Aldrin	Issue Date - 01.05.2014	
		Dieldrin		
		Bromopropylate		
		Alfa BHC		
		Beta BHC		
		Gamma BHC		
		Delta BHC		
		Alfa Endosulfan		
		Beta Endosulfan		
		Endosulfan sulfate		
		2,4-DDT		

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	9 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Plant extract Dried/wet	4,4'-DDT	CKL/ANL/AY-020 Issue No. 1 Issue Date - 01.05.2014	50.0 µg/l to 500 µg/l
		Heptachlor		
		Heptachlorepoide		
		Organophosphorus Pesticides		
		Chlorfenvinphos	CKL/ANL/AY-020 Issue No. 1 Issue Date - 01.05.2014	
		Methidathion		
		Phosalone		
		Fenitrothion		
		Diazinon		
		Pyrethroids		
	Cis-permethrin	CKL/ANL/AY-020 Issue No. 1 Issue Date - 01.05.2014	50.0 µg/l to 500 µg/l	
	Trans-permethrin			
	Alfa-cypermethrin			
	Fenpropathrin			
	Fenvalerate			
	Piperonylbutoxide			

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	10 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
f.	Bhasma (Processed fine powder) Abrakabhasma, Naga bhasma, Vangabhasma, Shankabhasma, Tamrabhasma, Mandoorabhasma, Lohabhasma etc	Loss on Drying at 105 °C	API (Part 1) Vol.1, (1 st Edition) Page 162	0.1 % to 90.0 %
		Total Ash	IP 2014, Vol.1, Page 98	0.05 % to 99.0 %
		Acid insoluble ash	IP 2014, Vol.1, Page 98	0.05 % to 80.0 %
		Alcohol soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 5.0 %
		Water soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 75.0 %
		pH (10 % aqueous extract)	API (Part 1) Vol.1 (1 st Edition) Page 156	3 to 8
g.	Sharkarasiktha/ Siruthugalgal (Granules) Haridrakhandam, Thaleesapatradi- vatakam, Ayur Manna, C-Health granules, Sitopaladivatakam	Total Ash	IP 2014, Vol.1, Page 98	0.05 % to 30.0 %
		Acid insoluble ash	IP 2014, Vol.1, Page 98	0.05 % to 5.0 %
		Alcohol soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 75.0 %
		Water soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 75.0 %
		Total Sugar	API, Part 1, Vol.VI,1 st Edition) Page 337	0.5 % to 95 %
		Reducing Sugar	API (Part 1) Vol.VI,(1 st Edition) Page 340	0.5 % to 15 %
		pH (10 % aqueous extract)	API (Part 1) Vol.1, (1 st Edition) Page 156	4 to 9

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	11 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
h.	Sharbat/ Manappagu (Syrup) Krishna thulasi cough syrup, Menorex syrup, Lungs clear syrup, Soolari syrup etc.	pH (10 % aqueous extract)	API (Part 1) Vol.1, (1 st Edition) Page 156	3 to 10
		Total solids	IP 2014, Vol. 1, Page 277	0.05 % to 90.0 %
		Total Sugar	API (Part 1) Vol.VI (1 st Edition) Page 337	0.5 % to 70 %
		Reducing Sugar	API (Part 1) Vol.VI (1 st Edition) Page 340	0.5 % to 60 %
		Specific gravity	API (Part 1) Vol.1 (1 st Edition) Page 161	0.5 to 2.0
		Lead	CKL/ANL/AY-008 Issue No. 1	0.05 mg/kg to 100 mg/kg
		Arsenic	Issue Date - 01.05.2014	0.05 mg/kg to 100 mg/kg
		Mercury		0.05 mg/kg to 100 mg/kg
		Cadmium		0.05 mg/kg to 100 mg/kg
i.	Raw plant material Bark/stem/seed/root/ Leaves/Flowers	Loss on Drying at 105 °C	API Part 1, Vol.1, 1 st Edition): Page 162	0.1 % to 60.0 %
		Total Ash	IP 2014, Vol.1, Page 98	0.05 % to 30.0 %
		Acid insoluble ash	IP 2014, Vol.1, Page 98	0.05 % to 5.0 %
		Alcohol soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 75.0 %
		Water soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 75.0 %
		pH (10 % aqueous extract)	API (Part 1), Vol.1, (1 st Edition) Page 156	3 to 10

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	12 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Raw plant material Bark/stem/seed/root/ Leaves/Flowers	Lead	CKL/ANL/AY-008 Issue No. 1	0.05 mg/kg to 100 mg/kg
		Arsenic	Issue Date - 01.05.2014	0.05 mg/kg to 100 mg/kg
		Mercury		0.05 mg/kg to 100 mg/kg
		Cadmium		0.05 mg/kg to 100 mg/kg
		Organochlorine Pesticides		
		Alachlor	CKL/ANL/AY-020 Issue No. 1	50.0 µg/l to 500 µg/l
		Aldrin	Issue Date - 01.05.2014	
		Dieldrin		
		Bromopropylate		
		Alfa BHC		
		Beta BHC		
		Gamma BHC		
		Delta BHC		
		Alfa Endosulfan		
		Beta Endosulfan		
		Endosulfan sulfate		
		2,4-DDT		
		4,4'-DDT		
		Heptachlor		
		Heptachlor epoxide		

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	13 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Raw plant material Bark/stem/seed/root/ Leaves/Flowers	Organophosphorus Pesticides		
		Chlorfenvinphos	CKL/ANL/AY-020 Issue No. 1	50.0 µg/l to 500 µg/l
		Methidathion	Issue Date - 01.05.2014	
		Phosalone		
		Fenitrothion		
		Diazinon		
		Pyrethroids		
		Cis-permethrin	CKL/ANL/AY-020 Issue No. 1	50.0 µg/l to 500 µg/l
		Trans-permethrin	Issue Date - 01.05.2014	
		Alfa-cypermethrin		
		Fenpropathrin		
		Fenvalerate		
		Piperonylbutoxide		

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	14 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
j.	Tailas/ Ghritas/ (Medicate oil and Ghee) Anutailam, Balatailam, Brahmighrtam, Dhanvantharamkuzh ampu, Eladikeram, Dadimadighrtam, Karpooraditailam, Neelibhrngadikeratailam, Sahacharakuzhambu, Vidaryadighrtam etc.	Iodine value	IS 548 (Part 1):1964	4.0 to 200.0
		Saponification value	IS 548 (Part 1): 1964	50.0 to 300.0
		Rancidity	CCRAS 15.0	Qualitative (Present/Absent)
		Refractive Index	IS 548 (Part 1): 1964	1.200 to 1.500
		Free Fatty Acid	IS 548 (Part 1): 1964	0.1 to 5.0
		Mineral Oil	IS 548 (Part 1): 1964	Qualitative (Present/Absent)
		Peroxide value	IS 548 (Part 1): 1964	(0.1 to 20) millieq/gram
		Acid value	IS 548 (Part 1): 1964	0.1 to 15.0
		Specific gravity at 25 °C	API (Part 1) Vol.1, (1 st Edition) Page 161	0.5 to 2.0
		Lead	CKL/ANL/AY-008 Issue No. 1	0.05 mg/kg to 100 mg/kg
Arsenic	Issue Date - 01.05.2014	0.05 mg/kg to 100 mg/kg		
Mercury		0.05 mg/kg to 100 mg/kg		
Cadmium		0.05 mg/kg to 100 mg/kg		

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	15 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection	
k.	Vati/ Gutika (Tablet/ Pills) Chandraprabha-gulika, Dhanvantaram-gulika, Hinguvachadigulika, Marmanigulika, Kaisoraguggulu, Sanjeevanivati, Sukhabhedigulika, Virechanagulika, Vilwadigulika, Yogarajaguggulu etc.	Total Ash	IP 2014, Vol.1, Page 98	0.05 % to 50.0 %	
		Loss on Drying at 105 °C	API (Part 1) Vol.1 (1 st Edition): Page 162	0.1 % to 40.0 %	
		Acid insoluble ash	IP 2014, Vol.1, Page 98	0.05 % to 5.0 %	
		Total Sugar	API (Part 1) Vol.VI (1 st Edition): Page 337	0.5 % to 60 %	
		Reducing Sugar	API (Part 1) Vol.VI (1 st Edition): Page 340	0.5 % to 45 %	
		Alcohol soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 50.0 %	
		Water soluble extractive	IP 2014, Vol. 1, Page 277	0.1 % to 75.0 %	
		pH (10% aqueous extract)	API (Part 1) Vol.1 (1 st Edition): Page 156	3.0 to 9.0	
		Lead	CKL/ANL/AY-008 Issue No. 1	0.05 mg/kg to 100 mg/kg	
		Arsenic	Issue Date - 01.05.2014	0.05 mg/kg to 100 mg/kg	
		Mercury		0.05 mg/kg to 100 mg/kg	
		Cadmium		0.05 mg/kg to 100 mg/kg	
		Organochlorine Pesticides			
		Alachlor	CKL/ANL/AY-020 Issue No. 1	50.0 µg/l to 500 µg/l	
Aldrin	Issue Date - 01.05.2014				
Dieldrin					

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	16 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Vati/ Gutika (Tablet/ Pills) Chandraprabha-gulika, Dhanvantaram-gulika, Hinguvachadigulika, Marmanigulika, Kaisoraguggulu, Sanjeevanivati, Sukhabhedigulika, Virechanagulika, Vilwadigulika, Yogarajaguggulu etc.	Bromopropylate	CKL/ANL/AY-020 Issue No. 1 Issue Date - 01.05.2014	50.0 µg/l to 500 µg/l
		Alfa BHC		
		Beta BHC		
		Gamma BHC		
		Delta BHC		
		Alfa Endosulfan		
		Beta Endosulfan		
		Endosulfan sulfate		
		2,4-DDT		
		4,4'-DDT		
		Heptachlor		
		Heptachlorepoxyde		
		Organophosphorus Pesticides		
		Chlorfenvinphos	CKL/ANL/AY-020 Issue No. 1 Issue Date - 01.05.2014	50.0 µg/l to 500 µg/l
		Methodathion		
	Phosalone			
	Fenitrothion			
	Diazinon			

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	17 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Vati/ Gutika (Tablet/ Pills) Chandraprabha-gulika, Dhanvantaram-gulika, Hinguvachadigulika, Marmanigulika, Kaisoraguggulu, Sanjeevanivati, Sukhabhedigulika, Virechanagulika, Vilwadigulika, Yogarajaguggulu etc.	Pyrethroids Cis-permethrin Trans-permethrin Alfa-cypermethrin Fenpropathrin Fenvalerate Piperonylbutoxide	CKL/ANL/AY-020 Issue No. 1 Issue Date - 01.05.2014	50.0 µg/l to 500 µg/l
II. FOOD & AGRICULTURAL PRODUCTS				
1.	Spices and Condiments	Moisture	ASTA (4 th Edition) 2.0: 1997, Page 3	0.2 % to 20 %
		Total ash	ASTA (4 th Edition) 3.0: 1997, Page 11-12	0.05 % to 20.0 %
		Acid insoluble ash	ASTA (4 th Edition) 4.0: 1997, Page 15-16	0.05 % to 5.0 %
		Extraneous matter	IS 1797: 1985, Page 4	0.1 % to 50 %
		Starch	ASTA (4 th Edition) 8.0: 1997, Page 40-41	0.1 % to 65 %
		Crude fibre	IS 1797: 1985, Page 13	0.1 % to 20 %

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	18 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Spices and Condiments	Calcium	AOAC (19 th Edition) 990.23: 2012	(1.0 mg to 1000 mg)/100 g
		Sodium		(1.0 mg to 1500 mg)/100 g
		Potassium		(1.0 mg to 1500 mg)/100 g
		Non-volatile ether extract	IS 1797: 1985, Page 14	0.1 % to 10 %
		Volatile oil	IS 1797: 1985, Page 15	0.1 % to 15 %
		Cold water soluble extract	IS 1797: 1985, Page 11	0.1 % to 20 %
		Alcohol soluble extract	IS 1797: 1985, Page 10-11	0.1 % to 23 %
		Light berries	IS 1798: 1982, Page 1-3	0.03 % to 10 %
		Bulk density	IS 1797: 1985, Page 4	100 g/l to 750 g/l
		Piperine content	ASTA (4 th Edition) 12.1: 1997, Page 52-53	0.1 % to 10 %
		Lead chromate Test	IS 3576: 1994, Page 7	Qualitative
		Sodium chloride	IS 1797: 1985, Page 16	0.5 % to 15 %
		Curcumin	CKL/ANL/FP-017	10000 ppm to 980000 ppm
	Organochlorine Pesticides			
	Alachlor	CKL/ANL/FP-018 Issue No. 1	10.0 µg/l to 500 µg/l	
	Aldrin	Issue Date - 01.05.2014		
	Dieldrin			
	Bromopropylate			

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	19 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection		
	Spices and Condiments	Alfa BHC	CKL/ANL/FP-018 Issue No. 1 Issue Date - 01.05.2014	10.0 µg/l to 500 µg/l		
		Beta BHC				
		Gamma BHC				
		Delta BHC				
		Alfa Endosulfan				
		Beta Endosulfan				
		Endosulfan sulfate				
		2,4-DDT				
		4,4'-DDT				
		Heptachlor				
		Heptachlor epoxide				
		Lead			CKL/ANL/FP-019 Issue No. 1 Issue Date - 01.05.2014	10.0 µg/l to 500 µg/l
		Arsenic			Issue Date - 01.05.2014	10.0 µg/l to 500 µg/l
		Mercury				10.0 µg/l to 500 µg/l
	Cadmium		10.0 µg/l to 500 µg/l			

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	20 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Bakery and confectionary product	Moisture	IS 12711: 1989, Page 1	0.1 % to 25 %
		Ash	IS 12711: 1989, Page 1-2	0.1 % to 20 %
		Acid insoluble ash	IS 12711: 1989, Page 2	0.01 % to 5 %
		Protein	IS 7219: 1973	0.5 % to 40 %
		Fat	IS 12711: 1989, Page 3	0.1 % to 50 %
		Carbohydrate	CKL/ANL/FP-025 Issue No. 1 Issue Date - 01.05.2014	5 % to 80 %
		Energy Value	CKL/ANL/FP-026 Issue No. 1 Issue Date - 01.05.2014	(10 Kcal to 1000 Kcal)/ 100 g
		Sodium	AOAC (19 th Edition) 990.23: 2012, chapter 33, Page 74	10 mg/kg to 100 mg/kg
		Potassium		10 mg/kg to 100 mg/kg
		Calcium		10 mg/kg to 100 mg/kg
		Crude Fiber	IS 12711: 1989 Page 4-5	0.1 % to 30 %
		Peroxide Value	IS 12711: 1989 Page 14	0.1 milli/kg to 20 milli/kg
		Acidity of extracted fat	IS 12711: 1989 Page 3-4	0.01 % to 20 %
Alcoholic Acidity	IS 12711: 1989 Page 5	0.01 % to 1 %		

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	21 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Cereals, Pulses and by products	Moisture	IS 1155: 1968 (RA 2005) Page 7-8	0.1 % to 20 %
Total ash		IS 1155: 1968 (RA 2005) Page 8	0.1 % to 20 %	
Acid insoluble ash		IS 1155: 1968 (RA 2005) Page 8-9	0.01 %t to 10 %	
Gluten		IS 1155: 1968 (RA 2005) Page 9-10	1 % to 16 %	
Alcoholic acidity as H ₂ SO ₄		IS 1155: 1968 (RA 2005) Page 11-12	0.01 % to 0.5 %	
Total Fat		AOAC (19 th Edition) 2003.05: 2012 Vol. II, Chapter 4 Page 41-43	0.1 % to 10 %	
Total Protein		IS 7219: 1973	1 % to 30 %	
Carbohydrate		CKL/ANL/FP-041 Issue No. 1 Issue Date - 01.05.2014	5 % to 80 %	
Energy value		CKL/ANL/FP-42 Issue No. 1, Issue Date - 01.05.2014	(10 Kcal to 500Kcal)/ 100 g	
Starch		IS 4706 (Part 2): 1978 (RA 2005) Page 10-17	1 % to 80 %	
Acidity of extracted fat expressed as oleic acid	DGHS Manual 3-14.5, Page 38-39	0.01 % to 10 %		

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	22 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Cereals, Pulses and byproducts	Crude fibre	IS 1155: 1968 (RA 2005), Page 10-11	0.1 % to 20 %
		Calcium	AOAC (19 th Edition) 990.23: 2012 Chapter 33, Page 74	10 mg/kg to 100 mg/kg
		Sodium		10 mg/kg to 100 mg/kg
		Potassium		10 mg/kg to 100 mg/kg
4.	Oils and fats	Iodine value	IS 548 (Part 1): 1964 (RA 2006) Page 47-48	5 to 300
		Boudouins test	IS 548 (Part 2): 1976 (RA 2006) Page 5-6	Qualitative
		Peroxide value	IS 548 (Part 1): 1964 (RA 2006) Page 63-64	0.1 milli/kg to 30 milli/kg
		Saponification value	IS 548 (Part 1): 1964 (RA 2006) Page 51-52	50 to 300
		Refractive index at 40 °C	IS 548 (Part 1): 1964 (RA 2006) Page 35-38	1.3 to 1.7
		Polenske value	IS 548 (Part 1): 1964 (RA 2006) Page 62-65	5 to 20
		Acid value	IS 548 (Part 1): 1964 (RA 2006) Page 29-30	0.1 to 50
		Bellier Test	IS 548 (Part 2): 1976 (RA 2006) Page 13-14	15 ° to 50 °
		Flash Point	IP 2014, Vol. 1, Page 246-247	100 °C to 350 °C

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	23 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Oils and fats	Cloud point	DGHS Manual2-17.0, Page 46-47	15 °C to 30 °C
		Moisture and volatile matter	IS 548 (Part 1): 1964 (RA 2006) Page 19-20	0.01 % to 4.0 %
		Free fatty acids as oleic acid	IS 548 (Part 1): 1964 (RA 2006) Page 29-30	0.01 % to 10 %
		Test for mineral oil	IS 548 (Part 2): 1976 (RA 2006) Page 11-12	Qualitative
		Test for presence of rancidity	DGHS Manual2-37.0, Page 97	Qualitative
		Insoluble impurities	IS 548 (Part 1): 1964 (RA 2006) Page 28-29	0.1 % to 10 %
		Cholesterol	CKL/ANL/FP/032 Issue No. 1 Issue Date - 01.05.2014	0.1 % to 10 %
		Reichert value	IS 548 (Part 1): 1964 (RA 2006) Page 57-59	1.0 to 25
		Specific gravity	IS 548 (Part 1): 1964 (RA 2006) Page 39-40	0.8 to 1
5.	Honey & honey product	Loss on Drying	IS 4941: 1994 Page 3-4	0.1 % to 20.0 %
		Total ash	IS 4941: 1994 Page 6	0.05 % to 10.0 %
		Total Sugar	IS 4941: 1994 Page 6	0.5

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	24 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Honey & honey product	Reducing Sugar	IS 4941: 1994 Page 5	NA
		Adulteration	IS 4941: 1994 Page 7	Qualitative
		Acidity of honey (as formic acid)	IS 4941: 1994 Page 7	0.01 to 1.0
		Specific Gravity at 25 °C	IS 4941: 1994 Page 2	0.5 to 2.0
6.	Tea and tea products	Moisture	IS 13853:1994	0.3 % to 12 %
		Total ash	IS 13854: 1994	0.1 % to 20 %
		Acid insoluble ash	IS 13857: 1993	0.1 % to 20 %
		Water soluble ash	IS 13855: 1993	1 % to 80 %
		Alkalinity of water soluble ash	IS 13856: 1993	0.1 % to 20 %
		Crude fibre	IS 10226 (Part 1): 1982, Page 5	0.1 % to 50 %
		Water soluble extract	IS 13862: 1999	0.1 % to 50 %
		Caffeine	CKL/ANL/FP-079 Issue No. 1 Issue Date - 01.05.2014	0.1 % to 10 %
		Iron particles	IS 3633: 2003, Page 3	10 mg/kg to 300 mg/kg

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	25 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Tea and tea products	Organochlorine Pesticides		
		Alachlor	CKL/ANL/FP-081 Issue No. 1	10.0 µg/l to 500 µg/l
		Aldrin	Issue Date - 01.05.2014	
		Dieldrin		
		Bromopropylate		
		Alfa BHC		
		Beta BHC		
		Gamma BHC		
		Delta BHC		
		Alfa Endosulfan		
		Beta Endosulfan		
		Endosulfan sulfate		
		2,4-DDT		
		4,4'-DDT		
		Heptachlor		
		Heptachlor Epoxide		
7.	Coffee, cocoa and by products	Moisture	IS 3077: 1992, Page 7	0.3 % to 12 %
		Total ash	IS 3077: 1992, Page 7	0.1 % to 20 %

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Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	26 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Coffee, cocoa and by products	Acid insoluble ash	IS 3077: 1992, Page 7-8	0.1 % to 10 %
		Water soluble ash	IS 3077: 1992, Page 8	1 % to 80 %
		Alkalinity of water soluble ash	IS 3077: 1992, Page 8	0.1 % to 20 %
		Caffeine	CKL/ANL/FP-087 Issue No. 1 Issue Date - 01.05.2014	0.1 % to 10 %
		Petroleum ether extract	IS 3077: 1992, Page 10	0.1 % to 20 %
8.	Nuts and Nut products	Moisture	AOAC (19 th Edition) 925.40 Chapter 40, Page 1	0.1 % to 20 %
		Protein	IS 7219: 1973	5 % to 50 %
		Fat	AOAC (19 th Edition) 948.22 Chapter 40, Page 1	1 % to 60 %
		Carbohydrate	CKL/ANL/FP-92 Issue No. 1 Issue Date - 01.05.2014	5 % to 80 %
		Energy value	CKL/ANL/FP-93 Issue No. 1 Issue Date - 01.05.2014	(10 Kcal to 1000 Kcal)/ 100 g
		Total ash	AOAC (19 th Edition) 950.49 Chapter 40, Page 2	0.01 % to 10 %
		Peroxide value	IS 12711: 1989, Page 14	(0.01 m to 20 m)/kg

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	27 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Nuts and Nut products	Acid insoluble ash	IS 1155: 1968 (RA 2005), Page 8-9	0.01 % to 5 %
		Crude fibre	AOAC (19 th Edition) 935.53 Chapter 40, Page 2	0.1 % to 20 %
		Salt	AOAC (19 th Edition) 950.52 Chapter 40, Page 2	0.5 % to 10 %
9.	Fruits, Vegetables & related Products	Moisture	CKL/ANL/FP-099	0.05 % to 95 %
		Total Sugar	DGHS Manual 5-10, Page 38-39	2 % to 40.0 %
		Acid insoluble ash	DGHS Manual 5- 5.3, Page 35	0.01 % to 5 %
		Starch	IS 4706 (Part 2): 1978 (RA 2005) Page 10-17	0.1 % to 80 %
		Extraneous matter	DGHS Manual 3- 1.2, Page 5-6	0.1 % to 10 %
		Reducing sugar	DGHS Manual 5- 10, Page 38-39	2 % to 30 %
		Fill of the container	DGHS Manual 5- 1.3, Page 2-3	80 % to 100 %
		Total ash	IS 1155: 1968 (RA 2005) Page 8	0.1 % to 30 %
		Total Soluble solids	DGHS Manual 5- 1.6, Page 5-6	1 % to 80 %
		Acidity as citric acid, acetic acid	IS 2860: 1964, Page 10-11	1 % to 20 %
		pH	DGHS Manual 5-2.3, Page 12	2 to 6
		Sodium chloride content	DGHS Manual 5-1.7, Page 10	0.5 % to 50 %

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	28 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Fruits, Vegetables & related Products	Total solids	DGHS Manual 5- 14.3, Page 42	1 % to 98 %
		Peroxidase test	DGHS Manual 5- 17.5, Page 51	Qualitative (Presence/Absence)
		Organochlorine Pesticides		
		Alachlor	CKL/ANL/FP-114 Issue No. 1	10.0 µg/l to 500 µg/l
		Aldrin	Issue Date - 01.05.2014	10.0 µg/l to 500 µg/l
		Dieldrin		10.0 µg/l to 500 µg/l
		Bromopropylate		10.0 µg/l to 500 µg/l
		Alfa BHC		10.0 µg/l to 500 µg/l
		Beta BHC		10.0 µg/l to 500 µg/l
		Gamma BHC		10.0 µg/l to 500 µg/l
		Delta BHC		10.0 µg/l to 500 µg/l
		Alfa Endosulfan		10.0 µg/l to 500 µg/l
		Beta Endosulfan		10.0 µg/l to 500 µg/l
		Endosulfan sulfate		10.0 µg/l to 500 µg/l
		2,4-DDT		10.0 µg/l to 500 µg/l
		4,4'-DDT		10.0 µg/l to 500 µg/l
		Heptachlor		10.0 µg/l to 500 µg/l
		Heptachlor Epoxide		10.0 µg/l to 500 µg/l

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	29 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Fruits, Vegetables & related Products	Organophosphorus Pesticides		
		Chlorfenvinphos	CKL/ANL/FP-114 Issue No. 1	10.0 µg/l to 500 µg/l
		Methidathion	Issue Date - 01.05.2014	10.0 µg/l to 500 µg/l
		Phosalone		10.0 µg/l to 500 µg/l
		Fenitrothion		10.0 µg/l to 500 µg/l
		Diazinon		10.0 µg/l to 500 µg/l
		Pyrethroids		
		Cis-permethrin	CKL/ANL/FP-114 Issue No. 1	10.0 µg/l to 500 µg/l
		Trans-permethrin	Issue Date - 01.05.2014	10.0 µg/l to 500 µg/l
		Alfa-cypermethrin		10.0 µg/l to 500 µg/l
		Fenpropathrin		10.0 µg/l to 500 µg/l
		Fenvalerate		10.0 µg/l to 500 µg/l
		Piperonylbutoxide		10.0 µg/l to 500 µg/l
III. WATER				
1.	Potable and Domestic	Odour	IS 3025 (Part 5): 1983	Qualitative
		Taste	APHA (22 nd Edition) 2160 C: 2012 Page 2.22	Qualitative
		Turbidity	APHA (22 nd Edition) 2130 B: 2012 Page 2.13-14	2 NTU to 1000 NTU

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	30 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Potable and Domestic	pH	APHA (22 nd Edition) 4500 H ⁺ B: 2012 Page 4. 92 - 95	1 to 14
		Conductivity	APHA (22 nd Edition) 2510 B: 2012 Page 2. 54 – 55	1 µs/cm to 2500 µs/cm
		Total hardness as CaCO ₃	APHA (22 nd Edition) 2340: 2012 Page 2. 44-46	1.0 mg/l to 1000 mg/l
		Total solids	APHA (22 nd Edition) 2540 B: 2012 Page 2. 64	10 mg/l to 1000 mg/l
		Suspended Solids	APHA (22 nd Edition) 2540 D: 2012 Page 2. 66	1.0 mg/l to 1000 mg/l
		Total dissolved solids	APHA (22 nd Edition) 2540 C: 2012 Page 2. 65	10 mg/l to 1000 mg/l
		Residual free chlorine	IS 3025 (Part 26): 1986	0.20 mg/l to 25 mg/l
		KMnO ₄ oxidisability (oxygen absorbed at 4hrs)	IS 3025 (Part 63): 2007	0.1 mg/l to 10 mg/l
		Alkalinity as HCO ₃ ⁻	APHA (22 nd Edition) 2320 B: 2012 Page 2.34 – 35	1 mg/l to 1000 mg/l
		Sulphide as H ₂ S	APHA (22 nd Edition) 4500 S ²⁻ F: 2012 Page 4. 178	5 mg/l to 10 mg/l
		Free CO ₂	APHA (22 nd Edition) 4500 CO ₂ -C: 2012 Page 4.31 – 36	5 mg/l to 20 mg/l

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	31 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Potable and Domestic	Nitrate as NO ₃ ⁻	APHA (22 nd Edition) 4500 NO ₃ ⁻ B: 2012 , Page 4. 122 -123	0.5 mg/l to 100 mg/l
		Fluoride as F ⁻	APHA (22 nd Edition) 4500 F ⁻ D: 2012, Page 4. 87 -88	0.5 mg/l to 5 mg/l
		Sulphate as SO ₄ ²⁻	APHA (22 nd Edition) 4500 SO ₄ ²⁻ E: 2012, Page 4. 190 – 191	4 mg/l to 100 mg/l
		Chloride as Cl ⁻	APHA (22 nd Edition) 4500 Cl ⁻ B: 2012, Page 4.72 – 73	1 mg/l to 1000 mg/l
		Phosphate-as P	APHA 2012(22 nd Edition): Method No. 4500 P.D , Page 4. 154 -155	0.4 mg/l to 10 mg/l
		Selenium as Se	CKL/ANL/WA-021 Issue No. 1	1 µg/l to 1000 µg/l
		Aluminium as Al	Issue Date - 01.05.2014	1 µg/l to 1000 µg/l
		Calcium as Ca		1 mg/l to 1000 mg/l
		Borate as Boron		1 µg/l to 1000 µg/l
		Lithium as Li		1 µg/l to 1000 µg/l
		Gallium as Ga		1 µg/l to 1000 µg/l
		Cobalt as Co		1 µg/l to 1000 µg/l
		Strontium as Sr		1 µg/l to 1000 µg/l
		Bismuth as Bi		1 µg/l to 1000 µg/l

Laboratory	CARe Keralam, KINFRA, Small Industries Park, Nalukettu Road, Koratty, Thrissur, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.07.2015
Certificate Number	T-3532	Valid Until	30.07.2017
Last Amended on	-	Page	32 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection	
	Potable and Domestic	Barium as Ba	CKL/ANL/WA-021 Issue No. 1	1 µg/l to 1000 µg/l	
		Copper as Cu	Issue Date - 01.05.2014	1 µg/l to 1000 µg/l	
		Iron as Fe		1 µg/l to 100 µg/l	
		Chromium as Cr		1 µg/l to 1000 µg/l	
		Nickel as Ni		1 µg/l to 1000 µg/l	
		Manganese as Mn		1 µg/l to 1000 µg/l	
		Cadmium as Cd		1 µg/l to 1000 µg/l	
		Lead as Pb		1 µg/l to 1000 µg/l	
		Mercury as Hg		1 µg/l to 100 µg/l	
		Arsenic as As		1 µg/l to 1000 µg/l	
		Sodium as Na		APHA (22 nd Edition) 3500- Na B: 2012 Page 3. 97-98	1 µg/l to 1000 µg/l
		Potassium as K		APHA (22 nd Edition) 3500- K B: 2012 Page 3. 87 – 88	1 µg/l to 1000 µg/l
		Alachlor		CKL/ANL/WA-023 Issue No. 1	0.100 µg/l to 500 µg/l
		Aldrin		Issue Date - 01.05.2014	0.100 µg/l to 500 µg/l
	Dieldrin			0.100 µg/l to 500 µg/l	
	Alfa BHC			0.100 µg/l to 500 µg/l	

Laboratory CARE Keralam, KINFRA, Small Industries Park, Nalukettu Road,
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Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 31.07.2015

Certificate Number T-3532 **Valid Until** 30.07.2017

Last Amended on - **Page** 33 of 33

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Potable and Domestic	Beta BHC	CKL/ANL/WA-023 Issue No. 1	0.100 µg/l to 500 µg/l
		Gamma BHC	Issue Date - 01.05.2014	0.100 µg/l to 500 µg/l
		Delta BHC		0.100 µg/l to 500 µg/l
		Alfa Endosulfan		0.100 µg/l to 500 µg/l
		Beta Endosulfan		0.100 µg/l to 500 µg/l
		Endosulfan sulfate		0.100 µg/l to 500 µg/l
		2,4-DDT		0.100 µg/l to 500 µg/l
		4,4'-DDT		0.100 µg/l to 500 µg/l

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