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SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
	 		performed	

BIOLOGICAL TESTING

[<u>I</u> .	AYUSH PRODUCTS			
1.	Veterinary Testing Biochemistry Serum / Plasma of	Cholesterol	SOP:CSM/BL-BIO-001 Procedure as per ERBA Kit (Issue Date: 30.11.2005)	4.2 mg/dl to 695 mg/dl
	Laboratory Animals	Bilirubin	SOP:CSM/BL-BIO-002 Procedure as per ERBA Kit (Issue Date: 30.11.2005)	0.08 mg/dl to 23 mg/dl
		Urea	SOP:CSM/BL-BIO-003 Procedure as per ERBA Kit (Issue Date: 30.11.2005)	11.5 mg/ml to 300 mg/ml
		Creatinine	SOP:CSM/BL-BIO-004 Procedure as per ERBA Kit (Issue Date: 30.11.2005)	0.08 mg/dl to 18 mg/dl
		Glucose	SOP:CSM/BL-BIO-005 Procedure as per ERBA Kit (Issue Date: 30.11.2005)	2.34 mg/dl to 500 mg/dl
		Triglyceride	SOP:CSM/BL-BIO-006 Procedure as per ERBA Kit (Issue Date: 30.11.2005)	9.73 mg/dl to 1000 mg/dl
		Total Protein	SOP:CSM/BL-BIO-007 Procedure as per ERBA Kit (Issue Date: 30.11.2005)	0.37 g/dl to 15 g/dl
		Albumin	SOP:CSM/BL-BIO-008 Procedure as per ERBA Kit (Issue Date: 30.11.2005)	0.1 g/dl to 6.0 g/dl
[[Aspartate	SOP:CSM/BL-BIO-009	2.5 Units/L to 500 Units/L

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
[// 	Transaminase (ASAT)	Procedure as per ERBA Kit (Issue Date: 30.11.2005)	
		10.Alanine Transaminase (ALAT)	SOP:CSM/BL-BIO-010 Procedure as per ERBA Kit (Issue Date: 30.11.2005)	4.4 Units/L to 360 Units/L
		11.Alkaline Phosphatase (ALP)	SOP:CSM/BL-BIO-011 Procedure as per ERBA Kit (Issue Date: 30.11.2005)	3.2 Units/L to 1080 Units/L
		Calcium	SOP:CSM/BL-BIO-012 Procedure as per ERBA Kit (Issue Date: 30.11.2005)	0.6 mg/dl to 16 mg/dl
		Sodium	SOP:CSM/BL-BIO-013 Procedure as per Liquizyme kit (Issue Date: 30.11.2005)	1.2 mmol/L to 180 mmol/L
		Potassium	SOP:CSM/BL-BIO-014 Procedure as per Ensure kit (Issue Date: 30.11.2005)	0.3 mmol/L to 7.0 mmol/L
		Protein	SOP:CSM/BL-BIO-015 Lowry OH, Rosebrough N.J, Farr A & Randall R.J. Journal of Biological Chemistry 1951,Vol. 193, p.265 (Issue Date: 28.07.2006)	10 mg/g to 250 mg/g
		Aspartate Transaminase (mg Pyruvate liberated /mg protein in 60 mts37°C	SOP:CSM/BL-BIO-016 Reitman S & Frankel S. American Journal of Clinical Pathology 1957, Vol. 28, p. 56-63	0.02 to 0.3

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
[(Issue Date: 28.07.2006)	
		Alanine Transaminase (mg Pyruvate liberated /mg protein in 30 mts @37°C	SOP:CSM/BL-BIO-017 Reitman S &Frankel S. American Journal of Clinical Pathology1957, Vol. 28, p.56-63. (Issue Date: 28.07.2006)	0.02 to 0.6
		4. Alkaline Phosphatase (mg Phenol liberated/mg protein in 15 mts @ 37°C	SOP:CSM/BL-BIO-018 Kind PRN &King EJ, Journal. Clinical Pathology 1954, Vol. 7, p. 322. (Issue Date: 28. 07. 2006)	1.0 to 8.0×10⁵
		5. Acid Phosphatase (mg phenol liberated / mg protein in 60 mts @ 37°C	SOP:CSM/BL-BIO-019 Kind PRN &King EJ, J. Clinical Pathology 1954, Vol. 7, p. 322. (Issue Date: 28.07.2006)	1.0 to 7.0×10⁵
2.	Ayurvedic Drugs/ Siddha Drugs Plant drugs Single drugs & Compound Formulations a. Curna b. Tablet	1. Macroscopic Study: 1.Size & Shape 2.Texture 3. Fracture 4.Colour 5.Odour 6.Taste	SOP: CSM/BL-BOT/001 Text book of Pharmacognosy, Wallis. T.E Fifth Edition pp.571-576. Quality Control Methods for Medicinal Plant Materials WHO, Geneva, pp.10-11. API, Part I, Vol. I-IX, Dept. AYUSH, Govt. of India Quality Standards of Indian Medicinal Plants, Vol.1-15, MPU,ICMR, New Delhi	Qualitative

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			(Issue Number: 01 Issue Date: 30.11.2005 Revision Number: 04 Revision Date: 04.08.2016)	
		 2. Microscopic Tests: Standardization and characterization of single drugs-Anatomy 1. Stomatal index 2. Stomatal number 3. Palisade ratio 4. Vein-islet number 5. Vein-termination number 	SOP: CSM/BL-BOT/002 API, Part I, Vol. I-IX, Dept. of AYUSH, Govt. of India API, Part I, Vol. VI, pp.233- 242. Khandelwal, KR, Practical Pharmacognosy, pp. 171- 172. Quality Standards of Indian Medicinal Plants, Vol.1-15, MPU, ICMR, New Delhi Text book of Pharmacognosy, Wallis. T.E Fifth Edition pp.571-576. Evans, WC, Trease and Evans' Pharmacognosy 13 th Edition, pp.799-803. (Issue Number: 01 Issue Date: 30.11.2005 Revision Number: 04 Revision Date: 01.06.2016)	Qualitative
		Powder Microscopic/ Histochemical Tests: Standardizations and characterization of single/compound drugs-powder Microscopy/Histo-	SOP: CSM/BL-BOT/003 API, Part I, Vol. I-IX, Dept. of AYUSH, Govt. of India Quality Standards of Indian Medicinal Plants, Vol.1-15, MPU, ICMR, New Delhi. API, Part I, Vol. VI, pp.233-	Qualitative

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
[chemical tests	242. Khandelwal, KR,	
		Starch grains	Practical Pharmacognosy,	
		Lignin	pp. 171-172.	
		Mucilage	Atlas Microscopy, Jackson	
		Tannin	and Snowdon,1990	
		Calcium carbonate	(Issue Number: 01	
		crystal	Issue Date: 30.11.2005	
		Calcium oxalate crystal	Revision Number: 04	
		Aleurone grains Oil	Revision Date: 01.06.2016)	

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

1.	AYUSH PRODUCTS	}		
1.	Ayurvedic Drugs Asava and Arista (AFI) (eg.)	рН	IP. Vol. I, 2018; p. 215. API, Part –II, Vol-I. p. 45&46 (SOP:CSM/CL/001) (Issue Date: 28.07.2006)	2.5 to 7.0
	Amritarishta & Kumaryasava	Specific gravity	IP. Vol. I, 2018; p. 256-257. (SOP:CSM/CL/002) (Issue Date: 28.07.2006)	0.78 to 1.55
		Total solids	IP. Vol. I, 2018; p. 329. (SOP:CSM/CL/003) (Issue Date: 28.07.2006)	0.2 % w/v to 45 % w/v
		Alcohol content	IP. Vol. I, 2018; p. 158-159. (SOP:CSM/CL/004)	1.5 % v/v to 12 % v/v
		Reducing sugar	AOAC International, 2016, Chapter 44.1.15, P.8, 9 and Table 930.44. (SOP:CSM/CL/005) (Issue Date: 28.07.2006)	2.0 % w/w to 56.0 % w/w
		Total sugar	AOAC International, 2016, Chapter 44.1.15, P.8, 9 and Table 930.44. (SOP:CSM/CL/005) (Issue Date: 28.07.2006)	2.0 % w/w to 62.0 % w/w
[· · · · · · · · · · · · · · · · · · ·	Test for methanol	Laboratory manual of	Qualitative

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			Organic Chemistry, 1957, p.54. (SOP:CSM/CL/006) (Issue Date: 28.07.2006)	
		Photo documentation of Single drug/ formulations by TLC	Plant drug Analysis, 1996, p.364. (SOP:CSM/CL/007) (Issue Date: 28.07.2006)	Comparison
		Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18-30 (SOP:CSM/CL/008) (Issue Date: 28.07.2006)	Comparison
2.	Araka and Dravaka(AFI) (eg.) Ajamodarka &	рН	IP. Vol. I, 2018; p. 215. API, Part –II, Vol-I. p. 45&46 (SOP:CSM/CL/001) (Issue Date: 28.07.2006)	2.5 to 6.8
	Sankhadravaka	Specific gravity	IP. Vol. I, 2018; p. 256-257. (SOP:CSM/CL/002)(Issue Date: 28.07.2006)	0.8 to 1.55
		Volatile matter /Oil	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.34-36. (SOP:CSM/CL/009) (Issue Date: 28.07.2006)	0.2 % v/w to 5 % v/w
3.	Siddha Drugs Tinir and Tiravakam (SFI)	Photo documentation of Single drug/ formulations byTLC	Plant drug Analysis, 1996, p.364. (SOP:CSM/CL/007)(Issue Date: 28.07.2006)	Comparison

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	(eg.) Cankatiravakam	Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18- 30. (SOP:CSM/CL/008)(Issue Date: 28.07.2006)	Comparison
4.	Avaleha, Rasayana, Paka and Modaka (AFI) (eg.)	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/010)(Issue Date: 28.07.2006)	0.5 % w/w to 15 % w/w
r	Ashwagandhadi lehya, Cyavanaprasa, Kusmandaka Rasayana &	Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/011)(Issue Date: 28.07.2006)	0.2 % w/w to 8.0 % w/w
	Eladya Modaka	Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (SOP:CSM/CL/012)(Issue Date: 28.07.2006)	0.2 % w/w to 20 % w/w
		Fat content	AOACInternational, 2016. Chapter 31.4.02, P.10. (SOP:CSM/CL/013)	0.5 % w/w to 20 % w/w
		рН	IP. Vol. I, 2018; p. 215. API, Part –II, Vol-I. p. 45&46 (SOP:CSM/CL/001) (Issue Date: 28.07.2006)	2.5 to 6.8

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	Siddha Drugs Padankam, Parpam, Centuram and Karuppu (SFI)	Reducing sugar	AOAC International, 2016, Chapter 44.1.15, P.8, 9 and Table 930.44. Appendix C p.37. (SOP:CSM/CL/005) (Issue Date: 28.07.2006)	5 % w/w to 65 % w/w
	(eg.) Canku Parpam, Tamra Centuram & Gandhaka	Total sugar	AOAC International, 2016, Chapter 44.1.15, P.8, 9 and Table 930.44. (SOP:CSM/CL/005)(Issue Date: 28.07.2006)	5 % w/w to 75 % w/w
	Karuppu	Water-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (SOP:CSM/CL/014) (Issue Date: 28.07.2006)	10 % w/w to 75 % w/w
		Alcohol-soluble Extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (SOP:CSM/CL/015) (Issue Date: 28.07.2006)	5 % w/w to 50 % w/w
6.	Ayurvedic /Siddha Drugs Bhasma, Pisti,	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/010)(Issue Date: 28.07.2006)	1 % w/w to 99 % w/w
	Rasayana and Parpati (AFI/SFI) (eg.) Kasisabhasma,	Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/011) (Issue Date: 28.07.2006)	0.2 % w/w to 80 % w/w

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Pravalapisti, Muktapisti, Makaradhvaja, Rasasinndura & Pancarmrita	Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (SOP:CSM/CL/012) (Issue Date: 28.07.2006)	0.2 % w/w to 2 % w/w
	Parpati	Assay for Calcium (Titrimetric method)	Analytical uses of Ethylenediamine tetra acetic acid, 1965, p.110- 111. (SOP:CSM/CL/016) (Issue Date: 28.07.2006)	10 % w/w to 45 % w/w
		Assay for Copper (Titrimetric Method)	A Text Book of Quantitative Inorganic analysis, 1961, p.348 and 358. (SOP:CSM/CL/017) (Issue Date: 28.07.2006)	5 % w/w to 65 % w/w
		Assay for Iron (Titrimetric method)	A Text Book of Quantitative Inorganic analysis, 1961, p.307-310. (SOP:CSM/CL/018) (Issue Date: 28.07.2006)	5 % w/w to 50 % w/w
7.	Ayurvedic /Siddha Drugs Curna	Fineness of particle	IP. Vol. I, 2018; p. 310-314. (SOP:CSM/CL/021) (Issue Date: 28.07.2006)	Coarse powder Moderately coarse, Moderately fine & Fine powder
	andKvathaCurna (AFI/SFI) (eg.) Avipattikaracurna,	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, Pp.28. (SOP:CSM/CL/010) (Issue Date: 28.07.2006)	0.2 % w/w to 70 % w/w

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Amritottara kvatha curna	Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/011)(Issue Date: 28.07.2006)	0.2 % w/w to 50 % w/w
		Water-soluble Extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (SOP:CSM/CL/014)(Issue Date: 28.07.2006)	3 % w/w to 75 % w/w
		Alcohol-soluble Extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (SOP:CSM/CL/015) (Issue Date: 28.07.2006)	3 % w/w to 50 % w/w
		Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (SOP:CSM/CL/012) (Issue Date: 28.07.2006)	1 % w/w to 12 % w/w
		рН	IP. Vol. I, 2018; p. 215. API, Part –II, Vol-I. p. 45&46 (SOP:CSM/CL/001) (Issue Date: 28.07.2006)	2.5 to 6.8
		Photo documentation of Single drug/ formulations by TLC	Plant drug Analysis, 1996, p.364. (SOP:CSM/CL/007) (Issue Date: 28.07.2006)	Comparison
L		Finger print of Single	HPTLC Quantitative	Comparison

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		drug/ formulations by HPTLC	analysis of Pharmaceutical formulations, 1996, p.18-30 (SOP:CSM/CL/008) (Issue Date: 28.07.2006)	
8.	Ayurvedic/ Siddha Drugs Taila, Ney and Ghritha (AFI/SFI)	Loss on drying at 105° C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (SOP:CSM/CL/012) (Issue Date: 28.07.2006)	0.2 % w/w to 10 % w/w
	(eg.) Narayanataila,	Refractive index	IP. Vol. I, 2018; p. 251-252. (SOP:CSM/CL/022) (Issue Date:28.07.2006)	1.33 to 1.55
	Triphalaghrita, Biraminey & VellaiEennai	Acid value	IP. Vol. I, 2018; p. 142-143. (SOP:CSM/CL/023) (Issue Date:28.07.2006)	0.5 to 10
		Saponification value	IP. Vol. I, 2018; p.151-152. (SOP:CSM/CL/024) (Issue Date:28.07.2006)	130 to 260
		lodine value	IP. Vol. I, 2018; (Method A) p. 144-145. (SOP:CSM/CL/025) (Issue Date: 28.07.2006)	8.0 to 175
		Fat content	AOAC International, 2016. Chapter 31.4.02, P.10 (SOP:CSM/CL/013) (Issue Date:28.07.2006)	1 % w/w to 25 % w/w
		Peroxide value	IP. Vol. I, 2018; p.151. (SOP:CSM/CL/026)(Issue Date: 28.07.2006)	0.2 to 30

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Rancidity	The Chemical Analysis of Foods, 1962, p411. (SOP:CSM/CL/027) (Issue Date: 28.07.2006)	Qualitative
		Photo documentation of Single drug/ formulations by TLC	Plant drug Analysis, 1996, p.364. (SOP:CSM/CL/007) (Issue Date: 28.07.2006)	Comparison
		Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18- 30. (SOP:CSM/CL/008) (Issue Date: 28.07.2006)	Comparison
9.	Guggulu (AFI) (eg.) Goksuradiguggul u	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/010) (Issue Date: 28.07.2006)	0.2 % w/w to 50 % w/w
		Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/011) (Issue Date: 28.07.2006)	0.2 % w/w to 36 % w/w
		Water-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (SOP:CSM/CL/014) (Issue Date: 28.07.2006)	15 % w/w to 60 % w/w
L	 	Alcohol-soluble	Quality Control Methods for	8 % w/w to 45 % w/w

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		extractive	Medicinal Plant Materials, WHO, 1998, p.30. (SOP:CSM/CL/015) (Issue Date: 28.07.2006)	
		Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (SOP:CSM/CL/012)(Issue Date: 28.07.2006)	8 % w/w to 24 % w/w
		рН	IP. Vol. I, 2018; p. 215. API, Part –II, Vol-I. p. 45&46 (SOP:CSM/CL/001) (Issue Date: 28.07.2006)	2.5 to 6.8
		Resin content	AOAC International, 2016, Chapter 43.1.15, P. 5 (SOP:CSM/CL/028) (Issue Date: 28.07.2006)	3 % w/w to 15 % w/w
		Photo documentation of Single drug/ formulations by TLC	Plant drug Analysis, 1996, p.364. (SOP:CSM/CL/007) (Issue Date: 28.07.2006)	Comparison
		Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18- 30. (SOP:CSM/CL/008) (Issue Date: 28.07.2006)	Comparison

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10.	Ksara and Lavana (AFI) (eg.) Apamargaksara &	рН	IP. Vol. I, 2018; p. 215. API, Part –II, Vol-I. p. 45&46 (SOP:CSM/CL/001) (Issue Date:28.07.2006)	2.5 to 11.5
	Narikela lavana	Assay for Sodium (Flame Photometric Method)	AOAC International, 2016, Chapter 3.3.13, P.13. (SOP:CSM/CL/020) (Issue Date: 28.07.2006)	0.1 % w/w to 40 % w/w
		Assay for Potassium (Flame Photometric Method)	AOAC International, 2016, Chapter 3.3.13, P.13. (SOP:CSM/CL/019) (Issue Date: 28.07.2006)	0.1 % w/w to 40 % w/w
11.	LauhaMandura, Karpam and Cunnam(AFI) (eg.) Saptamritalauha,	Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (SOP:CSM/CL/012) (Issue Date:28.07.2006)	1 % w/w to 10 % w/w
	Punarnavadi Mandura, Pavanakatukai & Vetiyuppue Cunnum	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/010) (Issue Date: 28.07.2006)	1 % w/w to 70 % w/w
		Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/011) (Issue Date: 28.07.2006)	0.2 % w/w to 25 % w/w
		Assay for Iron (Titrimetric Method)	A Text Book of Quantitative Inorganic analysis, 1961,	5 % w/w to 55 % w/w

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			p.307-310. (SOP:CSM/CL/018) (Issue Date: 28.07.2006)	
		Photo documentation of Single drug/ formulations by TLC	Plant drug Analysis, 1996, p.364. (SOP:CSM/CL/007) (Issue Date: 28.07.2006)	Comparison
		Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18- 30. (SOP:CSM/CL/008) (Issue Date: 28.07.2006)	Comparison
12.	Siddha Drugs Lepa, Kulambu and PuraMaruntukal	рН	IP. Vol. I, 2018; p. 215. API, Part –II, Vol-I. p. 45&46 (SOP:CSM/CL/001) (Issue Date: 28.07.2006)	2.5 to 6.5
	(SFI) (eg.) Sothaghnalepa & Akasthiyarkulamp u	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998p.28. (SOP:CSM/CL/010)(Issue Date: 28.07.2006)	0.2 % w/w to 25 % w/w
		Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/011)(Issue Date: 28.07.2006)	0.2 % w/w to 10 % w/w
L	i 	Loss on drying at 105°C	Quality Control Methods for	2 % w/w to 10 % w/w

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			Medicinal Plant Materials, WHO, 1998, p.33. (SOP:CSM/CL/012) (Issue Date: 28.07.2006)	
		Photo documentation of Single drug/ formulations by TLC	Plant drug Analysis, 1996, p.364. (SOP:CSM/CL/007) (Issue Date: 28.07.2006)	Comparison
		Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996,p.18-30. (SOP:CSM/CL/008) (Issue Date: 28.07.2006)	Comparison
13.	Rasayoga(AFI) (eg.) Anandabhairava rasa &	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/010) (Issue Date: 28.07.2006)	3 % w/w to 99 % w/w
	Karpurarasa	Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/011) (Issue Date: 28.07.2006)	0.2 % w/w to 45 % w/w
		Loss on drying at 105ºC	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (SOP:CSM/CL/012)(Issue Date: 28.07.2006)	1 % w/w to 10 % w/w
[Water-soluble	Quality Control Methods for	5 % w/w to 80 % w/w

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		extractive	Medicinal Plant Materials, WHO, 1998, p.30. (SOP:CSM/CL/014)(Issue Date: 28.07.2006)	
		Alcohol-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (SOP:CSM/CL/015) (Issue Date: 28.07.2006)	1 % w/w to 50 % w/w
14.	Ayurvedic Drugs Sattva(AFI) (eg.) Guducisattva	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/010)(Issue Date: 28.07.2006)	0.2 % w/w to 10 % w/w
		Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/011) (Issue Date: 28.07.2006)	0.2 % w/w to 10 % w/w
		Loss on drying at 105⁰C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (SOP:CSM/CL/012) (Issue Date: 28.07.2006)	1 % w/w to 10 % w/w
		Water-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (SOP:CSM/CL/014)(Issue Date: 28.07.2006)	5 % w/w to 65 % w/w

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
15.	Varti, Anjana and NetraBindu (AFI) (eg.) Candrodayavartti	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/010)(Issue Date: 28.07.2006)	0.5% w/w to 55 % w/w
	& ElanirKuzhambu	Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/011) (Issue Date: 28.07.2006)	0.2% w/w to 9 % w/w
		рН	IP. Vol. I, 2018; p. 215. API, Part –II, Vol-I. p. 45&46 (SOP:CSM/CL/001) (Issue Date: 28.07.2006)	5.0 to 10.0
		Photo documentation of Single drug/ formulations by TLC	Plant drug Analysis, 1996, p.364. (SOP:CSM/CL/007) (Issue Date: 28.07.2006)	Comparison
		Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18-30 (SOP:CSM/CL/008) (Issue Date: 28.07.2006)	Comparison
16.	Vati, Gutika and Mattirai (AFI) (eg.) Eladigutika,	Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (SOP:CSM/CL/012) (Issue Date: 28.07.2006)	1 % w/w to 15 % w/w

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Sanjivanivati & Ilavankati mattirai	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/010) (Issue Date: 28.07.2006)	0.2 % w/w to 80 % w/w
		Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/011) (Issue Date: 28.07.2006)	0.2 % w/w to 20 % w/w
		Disintegration test	IP. Vol. I, 2018, p.299-302. (SOP:CSM/CL/029) (Issue Date: 28.07.2006)	Not applicable
		Uniformity of weight	IP. Vol. I, 2018, p.308. (SOP:CSM/CL/030) (Issue Date: 28.07.2006)	Not applicable
17.	Herbal Formulations Plant Metirials (AFI/SFI)	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/010) (Issue Date: 28.07.2006)	0.1 % w/w to 15 % w/w
	(eg.) Root/ Root bark, Rhizome, Stem/ Stem bark,	Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/011) (Issue Date: 28.07.2006)	0.2 % w/w to 8 % w/w

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	Leaf, Flower, Fruit/Seed, Exudate/Gum, Whole plant,	Water-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (SOP:CSM/CL/014) (Issue Date: 28.07.2006)	1 % w/w to 75 % w/w
	Aerial parts & Heart wood	Alcohol-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (SOP:CSM/CL/015) (Issue Date: 28.07.2006)	1 % w/w to 50 % w/w
		Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998,p.33. (SOP:CSM/CL/012) (Issue Date: 28.07.2006)	1 % w/w to 12% w/w
		Photo documentation of Single plant material/ formulations by TLC	Plant drug Analysis, 1996, p.364. (SOP:CSM/CL/007) (Issue Date: 28.07.2006)	Comparison
		Finger print of Single plant materials / formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18-30 (SOP:CSM/CL/008) (Issue Date: 28.07.2006)	Comparison
18.	Other Metal/Element in Raw Material & Formulations	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/010) (Issue Date: 28.07.2006)	1 % w/w to 99 % w/w

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Iron (Fe), Copper (Cu), Calcium (Ca), Potassium(K),	Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (SOP:CSM/CL/011) (Issue Date: 28.07.2006)	0.2 % w/w to 60 % w/w
	Sodium (Na), Cadmium (Cd) & Lead (Pb)	Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998p.33. (SOP:CSM/CL/012)(Issue Date: 28.07.2006)	0.2 % w/w to 10% w/w
		Assay for Calcium (Titrimetric Method)	Analytical uses of Ethylenediamine tetra acetic acid, 1965, p.110- 111. (SOP:CSM/CL/016) (Issue Date: 28.07.2006)	5 % w/w to 60% w/w
		Assay for Copper (Titrimetric Method)	A Text Book of Quantitative Inorganic analysis, 1961, p.348& 358. (SOP:CSM/CL/017)(Issue Date: 28.07.2006)	5 % w/w to 65 %w/w
		Assay for Iron (Titrimetric Method)	A Text Book of Quantitative Inorganic analysis, 1961, p.307-310. (SOP:CSM/CL/018) (Issue Date: 28.07.2006)	5 % w/w to 60 % w/w
		Assay for Potassium (Flame Photometric Method)	AOAC International, 2016, Chapter 3.3.13, P.13 (SOP:CSM/CL/019) (Issue Date: 28.07.2006)	0.1 % w/w to 40 % w/w

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		Assay for Sodium (Flame Photometric Method)	AOAC International, 2016, Chapter 3.3.13, P.13 (SOP:CSM/CL/020) (Issue Date: 28.07.2006)	0.1 % w/w to 40 % w/w
		Cadmium (Cd) (AAS Method)	AOAC International, 2016, Chapter 9.1.09 P.19-21 & Chapter 9.2.22, P.41&42. (SOP:CSM/CL/031) (Issue Date: 28.07.2006)	0.01 mg/kg to 20 mg/kg
		Lead (Pb) (AAS Method)	AOAC International, 2016, Chapter 9.1.09 P.19-21 & Chapter 9.2.22, P.41&42. (SOP:CSM/CL/031) (Issue Date: 28.07.2006)	0.1 mg/kg to 20 mg/kg