

Laboratory	Captain Srinivasa Murti Drug Research Institute for Ayurveda and Siddha Drug Development, Arignar Anna Government Hospital Campus, Arumbakkam, Chennai, Tamil Nadu		
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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			
A.	Natural Drugs (Medicinal Plant Preparations)			
1.	Asava and Arista AFI	pH	IP. Vol. I, 2014; p. 169 (WI/SOP/:CSMDRIA/CL/001) (Issue Date: 28.07.2006)	2.5 to 7.0
	(Abhayarishta, Amritarishta, Ashokarishta, Asvagandharishta, Kanakasava, Kutajarishta, Kumaryasava, Khadirarishta, Chandanasava, Dasamularishta, Draksharishta, Jirakarishtha, Balarishta, Punarnavasava, Lohasava)	Specific gravity	IP. Vol. I, 2014; p. 208 (WI/SOP/:CSMDRIA/CL/002) (Issue Date: 28.07.2006)	0.78 to 1.55
		Total solids	IP. Vol. I, 2014; p. 277 (WI/SOP/:CSMDRIA/CL/003) (Issue Date: 28.07.2006)	0.2 to 45 %
		Alcohol content	IP. Vol. I, 2014; p. 116 (WI/SOP/:CSMDRIA/CL/004)	1.5 to 12 %
		Reducing sugar	AOAC International, 2005, Ch. 44, p.9 and table 930.44 Appendix C P.37. (WI/SOP/:CSMDRIA/CL/005) (Issue Date: 28.07.2006)	2.0 to 56.0 %
		Total sugar	AOAC International, 2005, Ch. 44,p.9 and table 930.44 Appendix C P.37. (WI/SOP/:CSMDRIA/CL/005) (Issue Date: 28.07.2006)	2.0 to 62.0 %
		Test for methanol	Laboratory manual of Organic Chemistry, 1957, p.54. (WI/SOP/:CSMDRIA/CL/006) (Issue Date: 28.07.2006)	Qualitative

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	Asava and Arista AFI	Photo documentation of Single drug/ formulations by TLC	Plant drug Analysis, 1996, p.364. (WI/SOP/:CSMDRIA/CL/007) (Issue Date: 28.07.2006)	Qualitative
		Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18-30 (WI/SOP/:CSMDRIA/CL/008) (Issue Date: 28.07.2006)	Qualitative
2.	Arka (AFI) (Ajamodarka, Karpuradyarka, Satapushparka)	pH	IP. Vol. I, 2014; p. 169 (WI/SOP/:CSMDRIA/CL/001) (Issue Date: 28.07.2006)	2.5 to 6.8
	Dravaka (AFI) Sankhadravaka	Specific gravity	IP. Vol. I, 2014; p. 208 (WI/SOP/:CSMDRIA/CL/002) (Issue Date: 28.07.2006)	0.8 to 1.55
	Tinir, (SFI) (Comput Tinir, Omat Tinir)	Volatile matter /Oil	Quality Control Methods for Medicinal Plant Materials , WHO, 1998, p.34-36 (WI/SOP/:CSMDRIA/CL/009) (Issue Date: 28.07.2006)	0.2 to 5 %
	Tiravakam (SFI) Cankatiravakam	4. Photo documentation of Single drug/ formulations by TLC	Plant drug Analysis, 1996, p.364. (WI/SOP/:CSMDRIA/CL/007) (Issue Date: 28.07.2006)	Qualitative
		5. Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18-30 (WI/SOP/: CSMDRIA/CL/008) (Issue Date: 28.07.2006)	Qualitative

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3.	Avaleha, Rasayana, Paka (AFI) (Agastyaharitaki, rasayana, Ashwagandhadhi lehya, Cyavanaprasa, Kusmandaka rasayana, Kutajavaleha, Dasamulaharitaki lehya, Draksavaleha, Bilvadileha, Brahma rasayana, Vasavaleha)	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/010) (Issue Date: 28.07.2006)	0.5 to 15%
		Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/011) (Issue Date: 28.07.2006)	0.2 to 2.0 %
		Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (WI/SOP/: CSMDRIA/CL/012) (Issue Date: 28.07.2006)	0.2 to 20 %
	Modaka (AFI) Eladya modaka	Fat content	AOAC International, 2005, ch. 31.4.02, p.10. (WI/SOP/: CSMDRIA/CL/013)	0.5 to 20 %
	Iracayanam (SFI) (Parankip pattai, Iracayanam, Tippili Iracayanam)	pH	IP. Vol. I, 2010; p. 169. (WI/SOP/:CSMDRIA/CL/001) (Issue Date: 28.07.2006)	2.5 to 6.8
		Reducing sugar	AOAC International, 2005, Ch. 44,p.9 and table 930.44 Appendix C p.37. (WI/SOP/:CSMDRIA/CL/005) (Issue Date: 28.07.2006)	5 to 65 %
Ilakam, (SFI) (Maka Vallati Ilakam, Nellikkai Ilakam, Vilvati Ilakam)				

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	Manappaku (SFI) (Atatotai, Manappaku, Matulai, Manappaku)	Total sugar	AOAC International, 2005, Ch. 44, p.9 and table 930.44 Appendix C p.37. (WI/SOP/:CSMDRIA/CL/005) (Issue Date: 28.07.2006)	5 to 75 %
	Meluku (SFI) (Iracakanti Meluku, Iti Vallati Nava Uppu Meluku)	Water-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (WI/SOP/:CSMDRIA/CL/014) (Issue Date: 28.07.2006)	10 to 75 %
		Alcohol-soluble Extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (WI/SOP/:CSMDRIA/CL/015) (Issue Date: 28.07.2006)	5 to 50 %
		Photo documentation of Single drug/ formulations by TLC	Plant drug Analysis, 1996, p.364. (WI/SOP/:CSMDRIA/CL/007) (Issue Date: 28.07.2006)	Qualitative
		Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18-30 (WI/SOP/: CSMDRIA/CL/008) (Issue Date: 28.07.2006)	Qualitative

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4.	Bhasma, (AFI) (Kasisabhasma, Pravalabhasma, Mukthabhasma, Yasadabhasma, Lauhabhasma, Sankhabhasma)	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/010) (Issue Date: 28.07.2006)	1 to 99 %
	Kupipakva Rasayana, (AFI) (Makaradhvaja, Rasasinndura, Samirapanna-Garasa)	Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/011) (Issue Date: 28.07.2006)	0.2 to 80 %
	Pisti, (AFI) (Pravalapisti, Muktapisti)	Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (WI/SOP/: CSMDRIA/CL/012) (Issue Date: 28.07.2006)	0.2 to 2 %
	Parpati (AFI) (Pancarmrita parpati)	Assay for Calcium (Titrimetric method)	Analytical uses of Ethylenediamine tetra acetic acid, 1965, p.110-111. (WI/SOP/: CSMDRIA/CL/016) (Issue Date: 28.07.2006)	10 to 45 %
	Patankam(SFI) Parpam (SFI) (Canku Parpam, Cempu Parpam, Kunkiliya Parpam)	Assay for Copper (Titrimetric Method)	A Text Book of Quantitative Inorganic analysis, 1961, p.348 and 358. (WI/SOP/: CSMDRIA/CL/017) (Issue Date: 28.07.2006)	5 to 65 %
	Centuram (SFI) (Tamra Centuram)			

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	Karuppu (SFI) (Civanar Amirtam, Pancha lavana, Karuppu, Gandhaka, Karuppu)	Assay for Iron (Titrimetric method)	A Text Book of Quantitative Inorganic analysis, 1961, p.307-310. (WI/SOP/: CSMDRIA/CL/018) (Issue Date: 28.07.2006)	5 to 50 %
5.	Curna (AFI) (Eladicurna, Avipattikaracurna, Talisadyacurna, Trikatucurna, Triphalacurna, Nimbadicurna, Nyagrodhadicurna, Pushyanugacurna, Balacaturbhadrika Curna, Sitotaladicurna)	Fineness of particle Ash Acid-insoluble ash	IP. Vol. I, 2014; p. 259. (WI/SOP/:CSMDRIA/CL/021) (Issue Date: 28.07.2006) Quality Control Methods for Medicinal Plant Materials, WHO, 1998, Pp.28. (WI/SOP/:CSMDRIA/CL/010) (Issue Date: 28.07.2006) Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/011) (Issue Date: 28.07.2006)	Qualitative 0.2 to 70 % 0.2 to 50 %
	Kvatha Curna (AFI) (Amritottara kvatha curna, Dasamulakatutraya kvatha curna, Trayantyadi kvatha curna)	Water-soluble Extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (WI/SOP/:CSMDRIA/CL/014) (Issue Date: 28.07.2006)	3 to 75 %
	Curanam, (SFI) (Tirikatukacurana m, Tiriphalacuranam, Eladicuranam)	Alcohol-soluble Extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (WI/SOP/:CSMDRIA/CL/015) (Issue Date: 28.07.2006)	3 to 45%

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	Kutinir (SFI) (Nilavembu Kutinir)	Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (WI/SOP/: CSMDRIA/CL/012) (Issue Date: 28.07.2006)	1 to 12 %
6.	Taila (AFI) (Balataila Narayanataila MahaVisagarbha Taila, Laksaditaila Balaashwagandha laksaditaila Pindataila)	Loss on drying at 105° C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (WI/SOP/: CSMDRIA/CL/012) (Issue Date: 28.07.2006)	0.2 to 10 %
		Refractive index	IP. Vol. I, 2014; p. 203. (WI/SOP/:CSMDRIA/CL/022) (Issue Date: 28.07.2006)	1.33 to 1.55
	Ghrita (AFI) (Jatyadighrita, Triphalaghrita, Dadimadighrita, 4Indukantaghrita)	Acid value	IP. Vol. I, 2014; p. 100. WI/SOP/: CSMDRIA/CL/023	0.5 to 10
		Saponification value	IP. Vol. I, 2014; p.109. (WI/SOP/:CSMDRIA/CL/024) (Issue Date: 28.07.2006)	130 to 260
	Ney (SFI) (Biraminey, Vallarainey)	Iodine value	IP. Vol. I, 2014; p. 102. Method A (WI/SOP/:CSMDRIA/CL/025) (Issue Date: 28.07.2006)	8.0 to 175
	Tailam (Noccit tailam, Pindaitailam, Civanarvembukulit ailam, VellaiEennai)	Fat content	AOAC International, 2005, ch. 31.4.02, p.10. (WI/SOP/:CSMDRIA/CL/013) (Issue Date: 28.07.2006)	1 to 25 %

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	Taila (AFI) (Balataila Narayanataila MahaVisagarbha Taila, Laksaditaila Balaashwagandha laksaditaila Pindataila)	Peroxide value	IP. Vol. I, 2014; p.109. (WI/SOP/:CSMDRIA/CL/026) (Issue Date: 28.07.2006)	0.2 to 30
	Taila, Laksaditaila Balaashwagandha laksaditaila Pindataila)	Rancidity.	The Chemical Analysis of Foods, 1962, p411. (WI/SOP/:CSMDRIA/CL/027) (Issue Date: 28.07.2006)	Qualitative
	Ghrita (AFI) (Jatyadighrita, Triphalaghrita, Dadimadighrita, 4Indukantaghrita)	Photo documentation of Single drug/ formulations by TLC	Plant drug Analysis, 1996, p.364. (WI/SOP/:CSMDRIA/CL/007) (Issue Date: 28.07.2006)	Qualitative
	Ney (SFI) (Biraminey, Vallarainey)	Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18-30 (WI/SOP/: CSMDRIA/CL/008) (Issue Date: 28.07.2006)	Qualitative
	Tailam (Noccit tailam, Pindatailam, Civanarvembukulit ailam, VellaiEennai)			
7.	Guggulu (AFI) (Triphalaguggulu, Kancanaraguggulu Yagarajaguggulu, Goksuradiguggulu, Laksaguggulu)	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/:CSMDRIA/CL/010.) (Issue Date: 28.07.2006)	0.2 to 50 %

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	Guggulu (AFI) (Triphalaguggulu, Kancanaraguggulu, Yagarajaguggulu, Goksuradiguggulu, Laksaguggulu)	Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/011) (Issue Date: 28.07.2006)	0.2 to 36 %
		Water-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (WI/SOP/:CSMDRIA/CL/014) (Issue Date: 28.07.2006)	15 to 50 %
		Alcohol-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (WI/SOP/:CSMDRIA/CL/015) (Issue Date: 28.07.2006)	8 to 35 %
		Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (WI/SOP/: CSMDRIA/CL/012) (Issue Date: 28.07.2006)	8 to 24 %
		Resin content	AOAC International, 2005, ch. 43, p.5. (WI/SOP/: CSMDRIA/CL/028) (Issue Date: 28.07.2006)	3 to 15 %
		Photo documentation of Single drug/ formulations by TLC	Plant drug Analysis, 1996, p.364. (WI/SOP/:CSMDRIA/CL/007) (Issue Date: 28.07.2006)	Qualitative

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	Guggulu (AFI) (Triphalaguggulu, Kancanaraguggulu, Yagarajaguggulu, Goksuradiguggulu, Laksaguggulu)	Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18-30 (WI/SOP/: CSMDRIA/CL/008) (Issue Date: 28.07.2006)	Qualitative
8.	Ksara (AFI) (Apamargaksara, Palasaksara, Yavaksara)	pH	IP. Vol. I, 2014; p. 169. (WI/SOP/:CSMDRIA/CL/001) (Issue Date: 28.07.2006)	2.5 to 11.5
	Lavana (AFI) (Arka lavana, Narikela lavana)	Assay for Sodium (Flame Photometric Method)	AOAC International, 2005, Ch. 3, p.10. (WI/SOP/:CSMDRIA/CL/020) (Issue Date: 28.07.2006)	1 to 100 ppm 0.1 to 40 %
		Assay for Potassium (Flame Photometric Method)	AOAC International, 2005, Ch. 3, p.10. (WI/SOP/:CSMDRIA/CL/019) (Issue Date: 28.07.2006)	1 to 100 ppm 0.1 to 40 %
9.	Lauha (AFI) (Dhatrilauha, Saptamritalauha)	Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (WI/SOP/: CSMDRIA/CL/012) (Issue Date: 28.07.2006)	1 to 5 %
	Mandura (AFI) (Punarnavadi mandura)	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/:CSMDRIA/CL/010) (Issue Date: 28.07.2006)	1 to 70 %
	Karpam (SFI) (Pavanakatukai)			

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	Cunnam (SFI) (Vetiyuppue cunnum)	Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/011) (Issue Date: 28.07.2006)	0.2 to 25 %
		Assay for Iron (Titrimetric Method)	A Text Book of Quantitative Inorganic analysis, 1961, p.307-310. (WI/SOP/:CSMDRIA/CL/018) (Issue Date: 28.07.2006)	5 to 55 %
		5. Photo documentation of Single drug/ formulations by TLC	Plant drug Analysis, 1996, p.364. (WI/SOP/:CSMDRIA/CL/007) (Issue Date: 28.07.2006)	Qualitative
		6. Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18-30 (WI/SOP/: CSMDRIA/CL/008) (Issue Date: 28.07.2006)	Qualitative
10.	Lepa (AFI) (Dasangalepa, Sothaghnalepa, Grihadhumadi lepa, Avalgujadilepa, Sinduradilepa)	pH	IP. Vol. I, 2014; p. 169. (WI/SOP/:CSMDRIA/CL/001) (Issue Date: 28.07.2006)	2.5 to 6.5
		Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998p.28. (WI/SOP/: CSMDRIA/CL/010) (Issue Date: 28.07.2006)	0.2 to 25 %

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	Venney (Amirta venney, Kunkiliya venney)	Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/011) (Issue Date: 28.07.2006)	0.2 to 10 %
	Kulampu, Pura maruntukal (SFI) (Akasthiyar, kulampu Ilanir kulambu)	Loss on drying at 105 ⁰ C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (WI/SOP/: CSMDRIA/CL/012) (Issue Date: 28.07.2006)	2 to 10 %
		Photo documentation of Single drug/ formulations by TLC	(WI/SOP/:CSMDRIA/CL/007) (Issue Date: 28.07.2006)	Qualitative
		Finger print of Single drug/ formulations by HPTLC	(WI/SOP/: CSMDRIA/CL/008) (Issue Date: 28.07.2006)	Qualitative
11.	Rasa yoga (AFI) (Anandabhairava rasa, Karpurarasa asantakusumakar Arasa, Brihatgarbhacinta manirasa, Sutasekhararasa)	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/010) (Issue Date: 28.07.2006)	3 to 99 %
		Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/011) (Issue Date: 28.07.2006)	0.2 to 45 %
		Loss on drying at 105 ⁰ C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (WI/SOP/: CSMDRIA/CL/012) (Issue Date: 28.07.2006)	1 to 10 %

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	Rasa yoga (AFI) (Anandabhairava rasa, Karpurarasa asantakusumakar Arasa, Brihatgarbhacinta manirasa, Sutasekhararasa)	Water-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (WI/SOP/:CSMDRIA/CL/014) (Issue Date: 28.07.2006)	5 to 80 %
		Alcohol-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (WI/SOP/:CSMDRIA/CL/015) (Issue Date: 28.07.2006)	1 to 45 %
12.	Sattva (AFI) (Guduci sattva)	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/:CSMDRIA/CL/010) (Issue Date: 28.07.2006)	0.2 to 10 %
		Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/:CSMDRIA/CL/011) (Issue Date: 28.07.2006)	0.2 to 10 %
		Loss on drying at 105 ⁰ C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (WI/SOP/:CSMDRIA/CL/012) (Issue Date: 28.07.2006)	1 to 10 %
		Water-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (WI/SOP/:CSMDRIA/CL/014) (Issue Date: 28.07.2006)	5 to 65 %

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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
13.	Vartti, Anjana, Netra Bindu (AFI) (Candrodayavartti Elanir Kuzhambu)	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/010) (Issue Date: 28.07.2006)	0.5 to 55 %
		Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/011) (Issue Date: 28.07.2006)	0.2 to 6 %
		pH	IP. Vol. I, 2014; p. 169. (WI/SOP/:CSMDRIA/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. (WI/SOP/:CSMDRIA/CL/007) (Issue Date: 28.07.2006)	Qualitative
		Finger print of Single drug/ formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18-30 (WI/SOP/:CSMDRIA/CL/008) (Issue Date: 28.07.2006)	Qualitative
14.	Vati and Gutika (AFI) (Eladigutika SanjivanivatiCitra kadigutika Chandraprabhavati Gandhakavati)	Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.33. (WI/SOP/: CSMDRIA/CL/012) (Issue Date: 28.07.2006)	1 to 15 %

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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
	Mattirai, (SFI) (Ilavankati mattirai Kasturi mattirai)	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/010) (Issue Date: 28.07.2006)	0.2 to 80 %
	Vatakam (SFI) (Inci vatakam, Pirandai vatakam, Talicati vatakam)	Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/011) (Issue Date: 28.07.2006)	0.2 to 20 %
		Disintegration test	IP. Vol. I, 2014, p.251. (WI/SOP/: CSMDRIA/CL/029) (Issue Date: 28.07.2006)	Qualitative
		Uniformity of weight	IP. Vol. I, 2014, p.256. (WI/SOP/: CSMDRIA/CL/030)	Qualitative
15.	Plant Materials (Root/Stolen Root bark Rhizome Root tuber /corm Stem Stem bark Leaf Flower/Flower bud/Stamen Fruit/pericarp/pulp Seed)	Ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/010) (Issue Date: 28.07.2006)	0.1 to 15 %
		Acid-insoluble ash	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.28. (WI/SOP/: CSMDRIA/CL/011) (Issue Date: 28.07.2006)	0.2 to 5 %

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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
	Exudate/Gum Whole plant Aerial parts Heart wood	Water-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (WI/SOP/:CSMDRIA/CL/014) (Issue Date: 28.07.2006)	1 to 75 %
		Alcohol-soluble extractive	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.30. (WI/SOP/:CSMDRIA/CL/015) (Issue Date: 28.07.2006)	1 to 50 %
		Loss on drying at 105°C	Quality Control Methods for Medicinal Plant Materials, WHO, 1998,p.33. (WI/SOP/: CSMDRIA/CL/012) (Issue Date: 28.07.2006)	1 to 12 %
		Photo documentation of Single plant material/ formulations by TLC	Plant drug Analysis, 1996, p.364. (WI/SOP/:CSMDRIA/CL/007) (Issue Date: 28.07.2006)	Qualitative
		Finger print of Single plant materials / formulations by HPTLC	HPTLC Quantitative analysis of Pharmaceutical formulations, 1996, p.18-30 (WI/SOP/:CSMDRIA/CL/008) (Issue Date: 28.07.2006)	Qualitative

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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
16.	Metal/ Mineral drugs	Ash	(WI/SOP/: CSMDRIA/CL/010) (Issue Date: 28.07.2006)	1 to 99 %
	IRON (Aya Centuram Arumuka Centuram Aya Centuram Aya Kantac Centuram Anna Peti Centuram)	Acid-insoluble ash	(WI/SOP/: CSMDRIA/CL/011) (Issue Date: 28.07.2006)	0.2 to 60 %
		Loss on drying at 105 ⁰ C	(WI/SOP/: CSMDRIA/CL/012) (Issue Date: 28.07.2006)	0.2 to 10 %
	COPPER (Cempu Parpam (Tamira Parpam) Tamirac Centuram Cempuc Centuram Mayilaragathi chooranam)	Assay for Calcium (Titrimetric Method)	(WI/SOP/:CSMDRIA/CL/016). (Issue Date: 28.07.2006)	5 to 60 %
		Assay for Copper (Titrimetric Method)	(WI/SOPCSMDRIA/CL/017). (Issue Date: 28.07.2006)	5 to 65 %
		Assay for Iron (Titrimetric Method)	(WI/SOP/:CSMDRIA/CL/018). (Issue Date: 28.07.2006)	5 to 60 %
	CALCIUM (Pavala Parpam Palagarai Parpam Muttu Cippi Parpam)	Assay for Potassium (Flame Photometric Method)	(WI/SOP/:CSMDRIA/CL/019) (Issue Date: 28.07.2006)	1 to 100 ppm 0.1 to 40 %
		Assay for Sodium (Flame Photometric Method)	(WI/SOP/:CSMDRIA/CL/020) (Issue Date: 28.07.2006)	1 to 100 ppm 0.1 to 40 %
	POTASSIUM (Vediuppu chunnam)			
	SODIUM (Astavarg- achooranam Kunma- kudrimezhugu)			

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17.	Herbal and Herbomineral Drugs	Cadmium	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p. 62-63. (WI/SOP/:CSMDRIA/CL/031) (Issue Date: 28.07.2006)	0.1 to 20 ppm
		Lead	Quality Control Methods for Medicinal Plant Materials, WHO, 1998, p.62-63. (WI/SOP/:CSMDRIA/CL/031) (Issue Date: 28.07.2006)	0.1 to 20 ppm

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