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BIOLOGICAL TESTING

١.	VETERINARY TEST	ING		
1.	Serum of Animals	Biochemistry		
	Treated with Ayurveda, Siddha Formulations and	Glucose	CARISM/TP/BC/07 (GOD-POD Enzymatic / Endpoint)	Upto 500 mg/dl
	Chemical Compounds	Billirubin-Total	CARISM/TP/BC/03 (Diazotized sulfanilic acid method/endpoint)	0.03 to 15 mg/dL
		Billirubin-Direct	CARISM/TP/BC/03 (Diazotized sulfanilic acid method/endpoint)	0.02 to 15 mg/dL
		AST (GOT)	CARISM/TP/BC/09 (Modified IFCC / Kinetic)	5 to 350 U/L
		ALT (GPT)	CARISM/TP/BC/10 (Modified IFCC / Kinetic)	3.1 to 350 U/L
		Creatinine	CARISM/TP/BC/06 (Kinetic/modified Jaffe's method)	0.04 –20 mg/dL
		Urea	CARISM/TP/BC/12 (Urease GLDH/enzymatic)	4.0 to 300mg/dL
		Total Cholesterol	CARISM/TP/BC/05 (CHOD-POD)	5 to 1000 mg/dL
		Triglycerides	CARISM/TP/BC/11 (Enzymatic /GPO-pod)	4.4 – 600 mg/dL
		Alkaline Phosphatase	CARISM/TP/BC/02 (AMP-NVKC/SFBC/Kinetic)	6 to 1200 U/L
		Total Protein	CARISM/TP/BC/08 (Biuret Red)	0.16 – 15 g/dL
		Albumin	CARISM/TP/BC/01(Bromo cresol Green dye binding/ End point)	0.11 to 7 g/dL

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2.	Tissues of Animals Treated with Ayurveda, Siddha Formulations and	Histopathology Amyloid using Congo red stain	CARISM/TP/HIS/03 (Azo / amine groups and hydroxyl radicals binding method)	Qualitative
	Chemical Compounds	Blood parasites using Giemsa stain	CARISM/TP/HIS/06 (Differential staining method)	Qualitative
		Glycogen using Periodic Acid Schiff stain	CARISM/TP/HIS/04 (Periodic and oxidation method)	Qualitative
		Iron using Perl's Prussian Blue stain	CARISM/TP/HIS/02 (Prussian blue reaction method)	Qualitative
		Collagen using Verhoffs Van Geison stain	CARISM/TP/HIS/05 (Differential staining of Collagen method)	Qualitative
		Differential staining of nucleus and cytoplasm using Hematoxylin & Eosin stain	CARISM/TP/HIS/01 (Differential staining of nucleus and cytoplasm method)	Qualitative
II.	AYUSH PRODUCTS	1		
1.	Ayurveda, Siddha a	nd Herbal Formulations	1	
a.	Plant Materials Used in Ayurvedic/ Siddha Formulations Aerial Parts Dry Fruits Dry Seeds Fruit Rind Heart Wood	Macroscopic Size Color Surface Odor Taste	CARISM/TP/CHE/34	Qualitative (Visual Appearance)

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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
	Leaves Pericarp Plant (Whole) Rhizome Root	Microscopic Standardizations and characterization of single drugs-Anatomy Powder Analysis	CARISM/TP/CHE/34	Qualitative (Comparison)
	Root Bark Root Tuber Stem Stem Bark Stem Extract Stem Tuber	Histochemical Starch grains Tannin Calcium Carbonate Crystal Mucilage Tannin Calcium oxalate crystal Fatty Acid Essential oil Lipid	CARISM/TP/CHE/35	Qualitative (Visual Appearance)
b.	Plant Materials used in Ayurvedic/Siddha	Quantitative Microscopic test of leaf: Stomatal number		
	Formulations	Upper epidermis Lower epidermis	CARISM/TP/CHE/36	(1-25) per mm ² (2-8) per mm ²
		Stomatal index Upper epidermis Lower epidermis	CARISM/TP/CHE/37	(7-42) per mm ² (5-64) per mm ²
		Palisade ratio	CARISM/TP/CHE/38	(2-17) per mm ²
		Vein islet number Vein termination number	CARISM/TP/CHE/38 CARISM/TP/CHE/38	(1-45) per mm ² (3-37) per mm ²
с.	Churna AFI & SAFI	Macroscopic Test: Color odor Taste	CARISM/TP/CHE/34	Qualitative (Visual Appearance)
		Microscopic Test	CARISM/TP/CHE/34	Qualitative (Comparison)

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		Histochemical Detection: Starch grains Tannin Calcium Carbonate Crystal Mucilage Tannin Calcium oxalate crystal Fatty Acid Essential oil Lipid	CARISM/TP/CHE/35	Qualitative (Visual Appearance)

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CHEMICAL TESTING

I.	AYUSH PRODUCTS			
1.	Asava and Arista Kumaryasava(A)	Appearance Characteristics	CARISM/TP/CHE/01	Qualitative
	Kumaryasava (B) Lohasava	pH Specific Gravity	CARISM/TP/CHE/02 CARISM/TP/CHE/03	2.5 – 7.5 0.5-1.5
	Vasakasava Asokarista	Total Solids AlcoholSoluble Extractive Saponification Value	CARISM/TP/CHE/04 CARISM/TP/CHE/10 CARISM/TP/CHE/13	1-80%w/w 4-85%w/w 150-270
	Jirakarista Dasamularista	Peroxide Value Carbohydrates	CARISM/TP/CHE/14 CARISM/TP/CHE/18	0.5-10 1-65%w/w
	Draksarista Balarista	Rancidity Heavy Metal	CARISM/TP/CHE/19	Qualitative
		Lead	CARISM/TP/CHE/23	0.05 mg/kg to 10000 mg/kg
		Cadmium	CARISM/TP/CHE/24	0.05 mg/kg to 10000 mg/kg
		HPTLC Profiles	CARISM/TP/CHE/26, CARISM/TP/CHE/31	Qualitative
2.	Avaleha or Leha and Paka	Appearance Characteristics	CARISM/TP/CHE/01	Qualitative
	Cyavanaprasa Dasamula Haritaki	pH Specific Gravity	CARISM/TP/CHE/02 CARISM/TP/CHE/03	2.5 – 7.5 0.5-1.5
	Bilvadi Leha Saubhagya Sunthi	Total Solids Ash	CARISM/TP/CHE/04 CARISM/TP/CHE/05	1-80%w/w 1-25%w/w
	Meluku Iraca Kanti Meluku	Loss on Drying Fat Carbohydrates	CARISM/TP/CHE/07 CARISM/TP/CHE/11 CARISM/TP/CHE/18	1-20%w/w 1-30%w/w 1-65%w/w
	Iti Vallati Nanti Meluku	Heavy Metal	CARISM/TP/CHE/23	0.05 mg/kg to 10000 mg/kg

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	llakam/llekiyam Impura Illakam	Cadmium	CARISM/TP/CHE/24	0.05 mg/kg to 10000 mg/kg
	Nellikkai Ilakam Vilvati Ilakam	HPTLC Profiles	CARISM/TP/CHE/26 CARISM/TP/CHE/31	Qualitative
	Iracayanam Tippili Iracayanam			
3.	Curna Ajamodadi Curna	Appearance Characteristics	(CARISM/TP/CHE/01)	Qualitative
	Eladi Curna Karpuradi Curna	pH Ash	CARISM/TP/CHE/02 CARISM/TP/CHE/05	2.5 – 7.5 1-25%w/w
	Talisadya Curna	Acid Insoluble Ash	CARISM/TP/CHE/06	0.1-10%w/w
	Trikatu Curna Triphala Curna	Loss on Drying Volatile Oil	CARISM/TP/CHE/07 CARISM/TP/CHE/08	1-20%w/w 0.5-10%w/w
	Sitopaladi Curna Hingvastaka	Water Soluble Extractive	CARISM/TP/CHE/09	4-85%w/w
	Curna Hingvadi Curna	Alcohol Soluble Extractive	CARISM/TP/CHE/10	4-85% w/w
	Hinguvacadi Curna	Acid Value	CARISM/TP/CHE/12	1-6
	Hutabhugadi Curna	Carbohydrates Heavy Metal	CARISM/TP/CHE/18	1-65% w/w
		Lead	CARISM/TP/CHE/23	0.05 mg/kg to 10000 mg/kg
	Curanam Pantcatipakkinic	Cadmium	CARISM/TP/CHE/24	0.05mg/kg to 10000mg/kg
	Curanam Amukkarac	HPTLC Profiles Zeta Sizer	CARISM/TP/CHE/26 & 31	Qualitative
	Curanam Attatic Curanam	Zeta Potential	CARISM/TP/CHE/33	Qualitative
	Civataic Curanam Elatic Curanam Tiratcatic Curanam	Particle Size		0.6 nm-10000 nm

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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
4.	Lepa	Appearance	(CARISM/TP/CHE/01)	Qualitative
	Kaccuradi Lepa	рН	CARISM/TP/CHE/02	2.5 – 7.5
	Dasanga Lepa	Loss on Drying	CARISM/TP/CHE/07	1-20%w/w
	Sinduradi Lepa	Fat	CARISM/TP/CHE/11	1-30%w/w
	Kulambu	Acid Value	CARISM/TP/CHE/12	1-6
	Kaucikar Kulambu	Rancidity	CARISM/TP/CHE/19	Qualitative
		Heavy Metal		
		Lead	CARISM/TP/CHE/23	0.05 mg/kg to 10000 mg/kg
		Cadmium	CARISM/TP/CHE/24	0.05 mg/kg to 10000 mg/kg
		HPTLC Profiles	CARISM/TP/CHE/26 & 31	Qualitative
		Degradation Temperature	CARISM/TP/CHE/32	Room Temp - 1000°C
		Phase Transition	CARISM/TP/CHE/32	Room Temp - 1000°C
		Zeta Sizer		
		Zeta Potential	CARISM/TP/CHE/33	Qualitative
		Particle Size		0.6 nm-10000 nm
5.	Bhasma	Appearance	CARISM/TP/CHE/01	Qualitative
	Abhraka Bhasma	Ash	CARISM/TP/CHE/05	1-25%w/w
	Kasisa Bhasma, Godanti Bhasma	Acid Insoluble Ash	CARISM/TP/CHE/06	0.1-10%w/w
	Tamra Bhasma	Loss on Drying	CARISM/TP/CHE/07	1-20%w/w
	Trivanga Bhasma	Assay for Calcium	CARISM/TP/CHE/20	0.1-50%w/w
	Naga Bhasma	Assay for Copper	CARISM/TP/CHE/21	1-100%w/w
	Yasada Bhasma	Assay for Iron	CARISM/TP/CHE/22	1-100%w/w
	Lauha Bhasma	Heavy Metal		
	Vanga Bhasma Sankha Bhasma	Lead	CARISM/TP/CHE/23	0.05 mg/kg to 10000 mg/kg
	Parpam	Cadmium	CARISM/TP/CHE/24	0.05 mg/kg to 10000 mg/kg
	Canku Parpam	Elemental		
	Kalnar Parpam	Carbon	CARISM/TP/CHE/25	2-90%w/w
	Kantaka Parpam	Hydrogen	CARISM/TP/CHE/25	1-90%w/w
	Muttu Ccippi	Nitrogen	CARISM/TP/CHE/25	1-90%w/w

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	Parpam	Degradation	CARISM/TP/CHE/32	Room Temp - 1000°C
	Patikara Parpam	Temperature		
	Vel Vanka Parpam	Phase Transition	CARISM/TP/CHE/32	Room Temp - 1000°C
		Zeta Sizer		
	Centuram	Zeta Potential	CARISM/TP/CHE/33	Qualitative
	Appirakac	Particle Size		0.6 nm-8900nm
	Centuram,			
	Ayakantac			
	Centuram,			
	Canta Marutac,			
	Centuram and			
	Kantac Centuram	A		Qualitativa
6.	Ghrta	Appearance	CARISM/TP/CHE/01	Qualitative
	Dasamula Ghrta	Specific Gravity	CARISM/TP/CHE/03	0.5-1.5
	Dhanvantara Chata	Fat Content	CARISM/TP/CHE/11	1-30%w/w
	Ghrta	Acid value	CARISM/TP/CHE/12	1-6
	Nev	Saponification Value	CARISM/TP/CHE/13	150-270
	Ney Cintil Ney	Peroxide Value	CARISM/TP/CHE/14	0.5-10
	Pirami Ney	Iodine Value	CARISM/TP/CHE/15	6-205
	Tutuvalai Ney	Rancidity	CARISM/TP/CHE/19	Qualitative
	Tuluvalal Ney	Heavy Metal		
	Vallarai Ney	Lead	CARISM/TP/CHE/23	0.05 mg/kg to
	vallaral Ney			10000 mg/kg
		Cadmium	CARISM/TP/CHE/24	0.05 mg/kg to
				10000 mg/kg
		HPTLC Profiles	CARISM/TP/CHE/26 & 31	Qualitative
7.	Vati-Gutika	Appearance	CARISM/TP/CHE/01	Qualitative
	Eladi Gutika	Characteristics	l	
	Kasturyadi Gutika	Ash	CARISM/TP/CHE/05	1-25% w/w
	Gandhaka Vati	Acid Insoluble Ash	CARISM/TP/CHE/06	0.1-10%w/w
	Gorocanadi Vati	Loss on Drying	CARISM/TP/CHE/07	1-20%w/w
	Candraprabha Vati	Water Soluble Extractive	CARISM/TP/CHE/09	4-85%w/w
	Citrakadi Gutika	Alcohol Soluble Extractive	CARISM/TP/CHE/10	4-85%w/w
	Cukkumtippalyadi	Disintegration	CARISM/TP/CHE/16	30 Sec to 1 Hour

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	Gutika	Uniformity of Weight for	CARISM/TP/CHE/17	50 mg – 2g
	DugdhaVati	Tablets		
	Dhanvantara	Uniformity of Weight for	CARISM/TP/CHE/17	50 mg – 2 g
	Gutika	Capsules		
	Plihari Vatika	Carbohydrates	CARISM/TP/CHE/18	1-65 % w/w
	Marma Gutika	Heavy Metal		
	Mrtasanjivani Gutika	Lead	CARISM/TP/CHE/23	0.05 mg/kg to 10000 mg/kg
	Lavangadi Vati Lasunadi Vati	Cadmium	CARISM/TP/CHE/24	0.05 mg/kg to 10000 mg/kg
	Sanjivani Vati	Elemental		10000 1119,119
	Mattirai/Kulikai	Carbon	CARISM/TP/CHE/25	2-90%w/w
	Canta	Hydrogen	CARISM/TP/CHE/25	1-90%w/w
	Cantirotayam	Nitrogen	CARISM/TP/CHE/25	1-90%w/w
	Kapata Mattirai	HPTLC Profiles	CARISM/TP/CHE/26 &31	Qualitative
	Korocanai Mattirai Kunkumappu and Mattirai Vatakam Impural Vatakam Inci Vatakam and Talicati Vatakam			
8.	Kupipakva	Appearance	CARISM/TP/CHE/01	Qualitative
	Rasayana	Characteristics		
	Makaravaja	Ash	CARISM/TP/CHE/05	1-25%w/w
	Rasakarupra	Acid Insoluble Ash	CARISM/TP/CHE/06	0.1-10%w/w
	Rasasindura	Loss on Drying	CARISM/TP/CHE/07	1-20%w/w
		Calcium	CARISM/TP/CHE/20	0.1-50%w/w
		Copper	CARISM/TP/CHE/21	1-100%w/w
		Iron	CARISM/TP/CHE/22	1-100% w/w
		Heavy Metal		
		Lead	CARISM/TP/CHE/23	0.05 mg/kg to 10000 mg/kg
		Cadmium	CARISM/TP/CHE/24	0.05 mg/kg to 10000 mg/kg

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		Elemental		
		Carbon	CARISM/TP/CHE/25	2-90%w/w
		Hydrogen	CARISM/TP/CHE/25	1-90%w/w
		Nitrogen	CARISM/TP/CHE/25	1-90%w/w
		Degradation Temperature	CARISM/TP/CHE/32	Room Temp - 1000 °C
		Phase Transition Zeta Sizer	CARISM/TP/CHE/32	Room Temp - 1000 °C
}		Zeta Potential	CARISM/TP/CHE/33	Qualitative
		Particle Size		0.6 nm-8900nm
9.	Siddha & Ayurveda Drugs (Raw Materials)	HPTLC Profiles	(CARISM/TP/CHE/26) (CARISM/TP/CHE/31)	Qualitative