

Laboratory Natural Remedies Research and Development Centre, Quality Control Laboratory, Plot No. 5, Veerasandra Industrial Area, 19th Km Stone, Hosur Road, Electronic City (Post), Bengaluru, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5527 (In lieu of T-1521 & T-1522)

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Sl.	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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BIOLOGICAL TESTING

I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Fruit & Fruit Products Garcinia combogia, Punica granatum, Herbs, spices and condiments Ginger powder raw material, turmeric powder raw material	Total aerobic microbial count	IP 2014– 2.2.9 Microbial contamination page 35 to 45 BP 2017 – Appendix XVI B 1, 2. USP 40 2017 - <61> , <62> Microbial Limit Test API 2011 – Vol VIII Part 1 Appendix USP 40 2017<2021> BAM 2016- Chapter 1,3,4,5,6,10,12,16,18 WHO/PHARM/92.559/Rev – 1 2002 – Pg.48-54	10 cfu/g to >10 ⁵ cfu/g
	Food Additives and preservatives Exipients Eg.Maltodextrin Starch and starch products. Maize starch Vegetables & Vegetable Products Momordica charantia	Total Yeast & Mold count	IP 2014 – 2.2.9 9 Microbial contamination page 35 to 45 BP 2017 – Appendix XVI B 1, 2. USP 40 2017 38 2015 - <61> , <62> Microbial Limit Test USP 40 2017<2021> API 2011 – Vol VIII Part 1 Appendix BAM 2016- Chapter 1,3,4,5,6,10,12,16,18 WHO/PHARM/92.559/Rev – 1 2002 – Pg.48-54	10 cfu/g to >10 ⁵ cfu/g

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	Gelatin and other gums	Bile Tolerant Gram Negative Organisms	BP 2017 – Appendix XVI B 1, 2. USP 40 2017- <61> , <62> USP 40 2017<2021> BAM 2016- Chapter 1,3,4,5,6,10,12,16,18	1 org/g to >1000 org/g
	Other Specified Food Items			
	Herbal extracts			
	E.g. Bacopa monnieri,	Total Enterobacteriaceae count	WHO/PHARM/92.559/Rev – 1 2002 – Pg.48-54	
	Andrographis paniculata.	Test for specific Pathogens E.coli Salmonella sps P.aeruginosa S.aureus Clostridium sps Candida albicans Shigella sps. Listeria monocytogenes	IP 2014 – 2.2.99 Microbial contamination page 35 to 45 BP 2017 – Appendix XVI B 1, 2. USP 40 2017- <61> , <62> Microbial Limit Test USP 40 2017<2022> API2011 – Vol VIII Part 1 Appendix BAM 2016- Chapter 1, 3, 4, 5, 6, 10, 12, 16, 18 WHO/ PHARM/ 92.559/ Rev – 1 2002 – Pg.48-54	Present/absent in 1g/ml or 10 g/10 ml or 25g/25ml
II.	AYUSH PRODUCTS			
1.	Ayurvedic Drugs Herbal Extracts	Total aerobic microbial count	IP 2014– 2.2.9 Microbial contamination page 35 to 45, BP 2017 – Appendix XVI B 1, 2. USP 40 2017 - <61> , <62> Microbial Limit Test API 2011 – Vol VIII Part 1 Appendix USP 40 2017<2021> BAM 2016- Chapter 1,3,4,5,6,10,12,16,18	10 cfu/g to >10 ⁵ cfu/g
	Herbal formulations Raw Material Products			

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			WHO/PHARM/92.559/Rev – 1 2002 – Pg.48-54	
		Total Yeast & Mold count	IP 2014 – 2.2.9 9 Microbial contamination page 35 to 45, BP 2017 – Appendix XVI B 1, 2. USP 40 2017- <61> , <62> Microbial Limit Test, USP 40 2017<2021> API 2011 – Vol VIII Part 1 Appendix BAM 2016- Chapter 1, 3 , 4, 5, 6, 10, 12, 16, 18 WHO/ PHARM/ 92.559/Rev – 1 2002 – Pg.48-54	10 cfu/g to >10 ⁵ cfu/g
		Bile Tolerant Gram Negative Organisms	BP 2017 – Appendix XVI B 1, 2. USP 40 2017- <61> , <62> USP 40 2017<2021> BAM 2016- Chapter 1,3,4,5,6,10,12,16,18	1 org/g to >1000 org/g
		Total Enterobacteriaceae count	WHO/PHARM/92.559/Rev – 1 2002 – Pg.48-54	
		Test for specific Pathogens E.coli Salmonella sps P.aeruginosa S.aureus Clostridium sps Candida albicans Shigella sps. Listeria monocytogenes	IP 2014 – 2.2.99 Microbial contamination page 35 to 45, BP 2017 – Appendix XVI B 1, 2. USP 40 2017- <61> , <62> Microbial Limit Test USP 40 2017<2022> API2011 – Vol VIII Part 1 Appendix BAM 2016- Chapter 1,3,4,5,6,10,12,16,18 WHO/PHARM/92.559/Rev – 1 2002 – Pg.48-54	Present/absent in 1g/ml or 10 g/10 ml or 25g/25ml

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III.	DRUGS AND PHARMACEUTICALS			
1.	Raw Materials Microbial limit test	Total aerobic microbial count	IP 2014– 2.2.9 9 Microbial contamination page 35 to 45, BP 2017 – Appendix XVI B 1, 2. USP 40 2017 - <61> , <62> Microbial Limit Test API 2011 – Vol VIII Part 1 Appendix WHO/PHARM/92.559/Rev – 1 2002– Pg.48-54	10 cfu/g to >10 ⁵ cfu/g
		Total Yeast & Mold count	IP 2014 – 2.2.9 page 35 to 45 BP 2017– Appendix XVI B 1, 2. USP 40 2017 - <61> , <62> Microbial Limit Test API 2011 – Vol VIII Part 1 Appendix WHO/PHARM/92.559/Rev – 1 2002– Pg.48-54	10 cfu/g to >10 ⁵ cfu/g
		Bile Tolerant Gram Negative Organisms /Total Enterobactereacea count	BP 2017 – Appendix XVI B 1, 2. USP 40 2017 - <61> , <62>WHO/PHARM/92.559/ Rev – 1 2002– Pg.48-54	1 org/g to >1000 org/g
		Test for specific Pathogens E.coli Salmonella sps P.aeruginosa S.aureus Clostridium sps Candida albicans	IP 2014– 2.2.9 Microbial contamination, page 35 to 45 BP 2017 – Appendix XVI B 1, 2. USP 40 2017 - <61> , <62> Microbial Limit Test API 2011 – Vol VIII Part 1	Present/absent in 1g/ml or 10 g/10 ml or 25g/25ml

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Shigella sps. Listeria monocytogenes	Appendix WHO/PHARM/92.559/Rev – 1 2002– Pg.48-54	
IV.	WATER			
1.	Distilled/ Demineralised Water	1. Total aerobic microbial count	IP 2014 – Vol I 5.6 pg. 866 – 869 USP 40 2017 – water for pharmaceutical purposes <1231> pg. 1181-1205	1 CFU/ml to 1000 CFU/ml
2.	Water Purifiers	Standard plate count	IS1622-1981 Reaff-2003	2 CFU/ml to 1600 CFU/ml
		Faecal coliform		2 CFU/ml to 1600 CFU/ml
3.	Ground Water/ Surface water	Standard plate count		1 CFU/ml to 10,000 CFU/ml
		Faecal coliform		2CFU/ml to1600 CFU/ml
		E.coli		
4.	Water for Processed Food Industry	Coliform.	IS1622-1981 Reaff-2003	2CFU/ml to1600 CFU/ml
		Faecal coliform		2CFU/ml to1600 CFU/ml
		E.coli		2CFU/ml to1600 CFU/ml
		Faecal Streptococci		2CFU/ml to1600 CFU/ml
5.	Packaged Drinking Water	Coliform.	IS1622-1981 Reaff-2003	2CFU/ml to1600 CFU/ml
		Faecal coliform		2 CFU/ml to1600 CFU/ml
		E.coli		2CFU/ml to1600 CFU/ml
		Faecal Streptococci		2CFU/ml to1600 CFU/ml
		Sulphate reducing bacteria		2CFU/ml to1600 CFU/ml
		Gelatin liquefying bacteria		1CFU/ml to100 CFU/ml

Bhumi Rajyaguru
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V.	ENVIRONMENT AND POLLUTION			
1.	Bioburden Estimation of Classified and non-classified Area. Air Settle plate method Using air sampler	Total aerobic microbial count	USP 40 2017 <1116>	1 cfu/m ³ to 200 cfu/m ³
2.	Surface Swab test Using contact plate Glove print	Total Yeast & Mold count		1 cfu/m ³ to 100 cfu/m ³
		Total aerobic microbial count		1-100cfu/square inch or per RODAC plate
		Total Yeast & Mold count		
		Bile Tolerant Gram Negative Organisms S.aureus		

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CHEMICAL TESTING

I. AYUSH PRODUCTS				
1.	Ayurvedic, Unani, Siddha and Homeopathic Drugs Herbal Raw materials	A. General tests Foreign Matter	IP (2014) - 2.6.1 BP (2017) Appendix XID, 2.8.2 USP 40 (2016) - Chapter <561> USPDSC: Chapter <561> API VOL - VI- Appendix 2.2.2	1% to 10% 10% to 30%
		Loss On drying	IP (2014) - 2.4.19 BP (2017) Appendix XIQ, 2.8.17 USP 40 (2016) – Chapter <921> USP DSC Chapter <731> API (2006)- Appendix 2.2.10	1 % to 10% 10% to 50%
		Determination of water	IP (2014) - 2.3.43, Method I & Method II BP (2017) Appendix IXC, 2.5.12 USP 40 (2016) - 921, USPDSC: Chapter <561> & Chapter Chapter <921>	0.1 % to 1.0% 1.0% to 50%
		Total Ash Content	IP (2014) - , 2.3.19 BP (2017) Appendix XIJ USP 40 (2016) - Chapter <561> USPDSC: Chapter <561> API VOL - VI- Appendix 2.2.3	0.1 % to 5% 5% to 15% 15% to 50%

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		Acid insoluble ash	IP (2014), 2.3.19 BP (2017) Appendix XIK, 2.8.1 USP 40 (2016) - Chapter <561> USPDSC: Chapter <561> API VOL - VI- Appendix 2.2.4	0.1 % to 5% 5% to 15% 15% to 50%
		Alcohol extractive value	IP (2014)- , 2.6.2, BP (2017) Appendix XIB USP 40 (2016) - Chapter <561>, USPDSC: Chapter <561> API (2006)- Appendix 2.2.7	0.1 % to 5% 5% to 60%
		Water extractive value	IP (2014) - , 2.6.3 BP (2017) Appendix XI B USP 40 (2016) – 561 USPDSC: Chapter <561> API VOL - VI- Appendix 2.2.8	0.5 % to 5% 5% to 80%
		Volatile oil content	BP (2017) Appendix XIE, 2.8.12 USP 40 (2016) Chapter <561> USPDSC: Chapter <561> API VOL - VI- Appendix 2.2.12	0.5 % to 2% 3% to 50%
		Crude fibre	USP 40 (2016) Chapter <561> USPDSC Chapter <561>	0.5 % to 25%
		Protein estimation	USP 40 (2016) Chapter <461> USPDSC Chapter <461>	0.5 % to 10%

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		Identification of Herbal raw materials by TLC	IP (2014) – 2.4.17 (IHM) BP (2017)– Appendix IIIA, 2.2.27 USP 40 (2016) – USP (2014) 30, 201 API VOL - VI– Appendix 2.2.12 WHO (2002)	
		Starch content	USPDSC: Chapter <561>	0.1 % to 5% 5% to 50%
		Heavy Metals/ Elemental analysis	NR/QCD/APM/09 WI(01) USP 40 (2016). 2232 ICP-MS	0.05 mg/kg to 10000 mg/kg
		Antimony (Sb)		
		Arsenic (As)		
		Cadmium (Cd)		
		Chromium (Cr)		
		Cobalt (Co)		
		Copper (Cu)		
		Lead (Pb)		
		Nickel (Ni)		
		Selenium (Se)		
		Mercury (Hg)		
		Tin (Sn)		
		Calcium (Ca)		0.5mg/kg to 10000mg/kg
		Magnesium (Mg)		
		Iron (Fe)		0.1mg/kg to 10000mg/kg
		Aluminium(Al)		
		Manganese (Mn)		
		E. Aflatoxins (B ₁ + B ₂ + G ₁ + G ₂)	USP 40 (2016) - Chapter <561> USPDSC: Chapter <561> Aflacard, NR/QCD/APM06/WI(52)	Qualitative

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		F. Ochratoxin A	APM04 WI(136A) BP 2017; Appendix XI S	0.001mg/Kg to 1 mg/Kg
		G. Residual Pesticide analysis	[NR/QCD/APM08 WI(01)]- Chlorinated Pesticides and Pyriithroides	
		Alachlor		0.02mg/Kg to 1.0 mg/kg
		Aldrin & Dieldrin		0.02mg/Kg to 1.0 mg/kg
		Lindane (γ -BHC)	[NR/QCD/APM08 WI(26)]	0.05mg/Kg to 1.0 mg/kg
		β -Endosulfan	Phosphorous pesticides	0.05mg/Kg to 1.0 mg/kg
		Endosulphan sulphate	AOAC - 970.52	0.05mg/Kg to 1.0 mg/kg
		Endrin	USP 40 (2016) Chapter <561>limits	0.02mg/Kg to 1.0 mg/kg
		Ethion		0.05mg/Kg to 1.0 mg/kg
		Chlorpyrifos ethyl		0.05mg/Kg to 1.0 mg/kg
		Methyl parathion		0.05mg/Kg to 1.0 mg/kg
		Parathion		0.05mg/Kg to 1.0 mg/kg
		Fenitrothion		0.05mg/Kg to 1.0 mg/kg
		Chloropyrifos methyl		0.05mg/Kg to 1.0 mg/kg
		Cypermethrin and isomers (sum)		0.05mg/Kg to 1.0 mg/kg
		Deltamethrin		0.05mg/Kg to 1.0 mg/kg
		Permethrin (sum)		0.05mg/Kg to 1.0 mg/kg
		Phosalone		0.05mg/Kg to 1.0 mg/kg
		Bromopropylate		0.05mg/Kg to 1.0 mg/kg
		Total DDT analog		0.05mg/Kg to 1.0 mg/kg
		2,4 DDE		
		4, 4 DDE		
		2,4 DDD		
		4, 4 DDD		
		2, 4 DDT		
		4, 4 DDT		
		Fenvalerate		0.05mg/Kg to 1.0 mg/kg
		Dichlorvos		0.05mg/Kg to 1.0 mg/kg
		Fonofos		0.05-1.0 mg/kg
		Diazinon		0.05 - 1.0 mg/kg
		Azinphos-methyl		0.05mg/Kg to 1.0 mg/kg

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		Azinphos-ethyl		0.05mg/Kg to 1.0 mg/kg
		Bromophos-ethyl		0.02mg/Kg to 1.0 mg/kg
		Bromophos-methyl		0.02mg/Kg to 1.0 mg/kg
		Chlorthal-dimethyl		0.005mg/Kg to 1.0 mg/kg
		b-Cyfluthrin	[NR/QCD/APM08 WI(01)]-	0.05mg/Kg to 1.0 mg/kg
		λ-Cyhalothrin	Chlorinated Pesticides and	0.05mg/Kg to 1.0 mg/kg
		Dieldrin	Pyrithiroides	0.02mg/Kg to 1.0 mg/kg
		Fenchlorophos (Sum of Fenchlorophos & Fenchlorophos oxon)	[NR/QCD/APM08 WI(26)] Phosphorous pesticides	0.05mg/Kg to 1.0 mg/kg
		Fenpropathrin	AOAC - 970.52	
		Chlorfenvinphos	USP 40 (2016) Chapter <561>limits	0.02mg/Kg to 1.0 mg/kg
		Heptachlor (sum of Heptachlor and Heptachlor epoxide)		0.02– 1.0 mg/kg
		Hexachlorobenzene		0.05mg/Kg to 1.0 mg/kg
		Hexachlorocyclohexane (other than gamma)		0.05mg/Kg to 1.0 mg/kg
		Malathion and Malaaxon (sum of)		0.05mg/Kg to 1.0 mg/kg
		Methacriphos		0.02mg/Kg to 1.0 mg/kg
		Methidathion		0.02mg/Kg to 1.0 mg/kg
		Methoxychlor		0.02mg/Kg to 1.0 mg/kg
		Mirex		0.005mg/Kg to 1.0 mg/kg
		Pendimethalin		0.05mg/Kg to 1.0 mg/kg
		Pentachloroanisole		0.005mg/Kg to 1.0 mg/kg
		Phosmet		0.05mg/Kg to 1.0 mg/kg
		Pyrethrum (sum)		0.05mg/Kg to 1.0 mg/kg
		Quintozene (sum)		0.05mg/Kg to 1.0 mg/kg
		S-421		0.02mg/Kg to 1.0 mg/kg
		Tecnazene		0.02mg/Kg to 1.0 mg/kg
		Tetradifon		0.05mg/Kg to 1.0 mg/kg
		Vincozolin		0.05 mg/kg to 1.0 mg/kg
		Acephate		0.05 mg/Kg to 1.0mg/kg

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		Dimethoate & omethoate (sum of)		0.05 mg/Kg to 1.0mg/kg
		Etrimphos		0.05 mg/kg to 1.0 mg/kg
		Mecarbam		0.05mg/Kg to 1.0 mg/kg
		Fensulphothion (Sum of Fensulphothion, Fensulphothion-oxon, Fensulphothion-oxon sulpon and Fensulphothion-sulpon)	[NR/QCD/APM08 WI(01)]- Chlorinated Pesticides and Pyriithiroides [NR/QCD/APM08 WI(26)] Phosphorous pesticides AOAC - 970.52	0.05 mg/kg to 1.0 mg/kg
		Methamidophos	USP 40 (2016) Chapter <561>limits	0.05 mg/Kg to 1.0 mg/kg
		Fenthion		0.05 mg/Kg to 1.0 mg/kg
		Monocrotophos		0.05 mg/Kg to 1.0 mg/kg
		Pirimiphos-Ethyl		0.05 mg/Kg to 1.0 mg/kg
		Pirimiphos-Methyl		0.05 mg/Kg to 1.0 mg/kg
		Quinalphos		0.05 mg/Kg to 1.0 mg/kg
		Tricyclazole		0.01 mg/Kg to 1.0 mg/kg
		Inorganic bromide		25.0 mg/Kg to 1000 mg/kg
		Benzo-a-pyrene Benzo-b-fluoranthene Benzo-a-anthracene Chrysene	[NR/QCD/APM04 WI(124)]	0.005mg/Kg to 1 mg/Kg
		Estimation of Actives/ Markers by HPLC		
		Hydroxy citric acid and its Lactone in Garcinia species	IP (2014) page 3213 USP 40 (2016) page 6046	1.0 % to 30%
		Andrographolide in Andrographis paniculata	IP (2014) page 3230 USP 40 (2016) page 5878	0.10 % to 10%
		Forskolin in Coleus forskohlii	IP (2014) page 639 USP 40 (2016) page 6030	0.05 % to 10%
		Asiaticoside in Centella asiatica	IHM-[NR/QCD/ APM 04 WI(04A)] Issue No: 05 Issue date: 21/04/2016 BP (2017) IV 144	0.05 % to 5%

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			IP (2014) page 3241	
		Guggulsterone-E & Z in Commiphora mukul	IP (2014) page 3219 USP 40 (2016) page 6093	0.10 % to 2.5%
		Piperine in Piper longum and Piper nigrum	IP (2014) page 3244 USP 40 (2016) page 5924	0.10 % to 10%
		Mangiferin in Mangifera indica	IP (2014) page 3177	0.10 % to 10%
		Gallic acid in Phyllanthus emblica/Emblica officinalis	IP (2014) page 3174	0.10 % to 10%
		Bacosides in Bacopa monnieri	IP (2014) page 3198 USP 40 (2016) page 5897	0.10 % to 10%
		Curcumin in Curcuma longa	IP (2014) page 3222 USP 40 (2016) page 5984	0.10 % to 5%
		Capsaicin in Capsicum annum	USP 40 (2016) page 2571 USPDSC page 585	0.10 % to 10%
		Wedelolactone in Eclipta alba	IP (2014) page 3194	0.10 % to 5%
		Total withanolides in Withania somnifera	IHM – [NR/QCD/ APM04 WI(17)] Issue No: 05 Issue date: 21/04/2016 IP (2014) page 3183 USP 40 (2016) page 5884	0.10 % to 5%
		Gymnemic acid in Gymnema sylvestris	IP (2014) page 3216 USP 40 (2016) page 6099	0.10 % to 10%
		Gingerols and shogaols in Zingiber officinale	IP (2014) page 3270 USP 40 (2016) page 6057 USPDSC page 725	0.10 % to 15%
		Catechins in Camellia sinensis	IHM – [NR/QCD/ APM04 WI(23)] Issue No: 05 Issue date: 21/04/2016 USPDSC	1.0 % to 15%

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		Marmelosin in Aegle marmelos	IHM – [NR/QCD/ APM04 WI(25)]	0.10 % to 2%
		Berberin in Berberis aristata	IHM – [NR/QCD/ APM04 WI(27)] Issue No: 05 Issue date: 21/04/2016	0.10 % to 5%
		Vasicine in Adhatoda vasica	IHM – [NR/QCD/ APM04 WI(29)] Issue No: 05 Issue date: 21/04/2016 IP (2014) page 3278	0.10 % to 5%
		L-Dopa in Mucuna pruriens	IHM – [NR/QCD/ APM04WI(31)] Issue No: 05 Issue date: 21/04/2016	0.10 % to 10%
		Harmine and Harmaline in Peganum harmala	IHM – [NR/QCD/ APM04 WI(33)] Issue No: 05 Issue date: 21/04/2016	0.10 % to 10%
		Phyllanthin and Hypophyllanthin in Phyllanthus amarus	IHM – [NR/QCD/ APM04 WI(37)] Issue No: 05 Issue date: 21/04/2016 IP (2014) page 3195	0.10 % to 2%
		Boswellic acids in Boswellia serrata	IHM – [NR/QCD/ APM04 WI(39)] Issue No: 05 Issue date: 21/04/2016	1.0 % to 20%
		L-Dopa in Mucuna pruriens	IHM – [NR/QCD/ APM04 WI(31)] Issue No: 05 Issue date: 21/04/2016	0.10 % to 10%
		Harmine and Harmaline in Peganum harmala	IHM – [NR/QCD/APM04 WI(33)] Issue No: 05 Issue date: 21/04/2016	0.10 % to 10%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Phyllanthin and Hypophyllanthin in Phyllanthus amarus	IHM – [NR/QCD/APM04 WI(37)] Issue No: 05 Issue date: 21/04/2016 IP (2014) page 3195	0.10 % to 2%
		Boswellic acids in Boswellia serrata	IHM – [NR/QCD/APM04 WI(39)] Issue No: 05 Issue date: 21/04/2016	1.0 % to 20%
		Sennosides A and B in Cassia angustifolia	IHM - [NR/QCD/APM04 WI(43)] Issue No: 05 Issue date: 21/04/2016 IP (2014) page 3261 JP – 14 th Edition	0.10 % to 10%
		Glycyrrhizin in Glycyrrhiza glabra	IHM – [NR/QCD/APM04 WI(48)] Issue No: 05 Issue date: 21/04/2016 IP (2014) page 3282 BP (2017) IV page 264 USP 40 (2016) page 6125 USPDSC page 781	0.10 % to 25%
		Punicalagin in Punica granatum	IHM - [NR/QCD/APM04WI(63)]	0.10 % to 5%
		Chebulic acid, Chebulagic acid, Chebulinic, Corilagin, 1,3,6-Trigalloyl glucose, Ellagic acid, Gallic acid in Terminalia bellerica and Terminalia chebula	IP (2014) page 3223 IHM NR/QCD/APM04WI(64)]	0.10 % to 20%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Catechin, Epicatechin in Acacia catechu	IHM – [NR/QCD/APM04 WI(65)] Issue No: 05 Issue date: 21/04/2016	1.0 % to 40%
		Trigonelline in Trigonella foenum-graecum	IHM – [NR/QCD/APM04 WI(69)] Issue No: 05 Issue date: 21/04/2016	0.10 % to 3%
		Corosolic acid in Lagerstroemia speciosa	IHM - NR/QCD/APM04 WI(71) Issue No: 05 Issue date: 21/04/2016	0.05 % to 2%
		Parthenolide in Chrysanthemum parthenium	BP (2017) V page A101	0.05 % to 2%
		Agnuside in Vitex nigundo	BP (2017) page IV 426	0.05 % to 5%
		Rosmarinic acid in Ocimum sanctum	BP (2017) page IV 92	0.01 % to 2%
		Rubiadin in Rubia cordifolia	IP (2014) page 3243	0.01 % to 5%
		Arjungenin in Terminalia arjuna	IP (2014) page 3180 BP (2017) IV page 403	0.001 % to 1%
		Kutkin in Picroriza kurroa	IP (2014) page 3235	0.01 % to 2%
		Allicin in Allium sativum	IP (2014) page 3236 BP (2017) IV page 454	0.01 % to 1%
		Hypericin & pseudohypericin in Hypericum perforatum		0.001 % to 0.01%
		Boeravinone B in Boerhavia diffusa	IP (2014) page 3256	0.001 % to 0.01%
		p-methoxy cinnamic acid ethyl ester in Hedychium spicatum	IP (2014) page 3268	0.001 % to 0.01%

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		Caffeine in Coffea arabica		0.05 % to 10%
		α -mangostin in Garcinia mangostana	IHM - NR/QCD/APM04 WI(72)	0.05 % to 10%
		Steviosides in Stevia rebaudiana	IHM - NR/QCD/APM04 WI(52) Issue No: 05 Issue date: 21/04/2016	0.05 % to 5%
		Glycyrrhizic acid, Glabridin, Glabrol, Total flavonoids, Eicosanyl caffeate & Docosyl caffeate in Glycyrrhiza glabra	IHM- NR/QCD/APM04 WI(83) Issue No: 03 Issue date: 21/04/2016 IHM - NR/QCD/APM04 WI(84) Issue No: 03 Issue date: 21/04/2016 IHM - NR/QCD/APM04 WI(85) Issue No: 03 Issue date: 21/04/2016 IHM - NR/QCD/APM04 WI(90) Issue No: 03 Issue date: 21/04/2016	0.1 % to 5.0%
		Gallic acid, Methyl gallate & mangiferin in Mangifera indica	IHM - NR/QCD/APM04 WI(92)	0.1 % to 10%
		Psoralen, Bakuchicin & bakuchiol in Psoralea corylifolia	IHM - NR/QCD/APM04 WI(94)	0.01 % to 1%
		Karanjin in Pongamia glabra	IHM - NR/QCD/APM04 WI(93)	0.01 % to 1%
		Embelin in Embelia ribes	IHM - NR/QCD/APM04 WI(95) Issue No: 03 Issue date: 21/04/2016	0.01 % to 5%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Gardenin A in Gardenia gummifera	IHM - NR/QCD/APM04 WI(96) Issue No: 03 Issue date: 21/04/2016	0.01 % to 2%
		Colchicine in Gloriosa superba	IHM - NR/QCD/APM04 WI(97) Issue No: 03 Issue date: 21/04/2016	0.01 % to 1%
		Cladrin, Isoforomonetin, Foromonetin, Cajanin and medicarpine in Butea monosperma	IHM - NR/QCD/APM04 WI(98)	0.01 % to 2%
		Valerenic acid in Valeriana officinalis	USPDSC page 966 BP (2017) IV page 418	-
		Nigrumuin 1 Solanum nigrum	IHM-NR/QCD/APM04 WI(126) Issue No: 03 Issue date: 21/04/2016	0.1 % to 5%
		Arjungenin, Arjunic acid, Arjunolic acid, Arjunetin in Terminalia arjuna	IHM-NR/QCD/APM04 WI(127) Issue No: 03 Issue date: 21/04/2016	0.1 % to 1%
		Agnuside, Negundoside, p-Hydroxy benzoic acid in Vitex negundo	IHM-NR/QCD/APM04 WI(128) Issue No: 05 Issue date: 21/04/2016	0.1 % to 5%
		Chlorogenic acid in Coffea arabica	IHM-NR/QCD/APM04 WI(132) Issue No: 03 Issue date: 21/04/2016	0.1% to 10%
		Pterostilbene in Pterocarpus marsupium	HM-NR/QCD/APM04 WI(129) Issue No: 03 Issue date: 21/04/2016	0.1% to 5%
		Sesamin in Sesamum indicum	IHM-NR/QCD/APM04 WI(130) Issue No: 03 Issue date: 21/04/2016	0.1% to 5%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Mahanimbine, Koenimbine in Murayya koenigii	IHM-NR/QCD/APM04 WI(131) Issue No: 03 Issue date: 21/04/2016	0.1 % to 5%
		Estimation of Actives/ Markers by Spectrophotometry		
		Hydroxyanthracene glycoides in Cassia angustifolia	BP (2017) IV page 385	0.10 % to 10%
		Hydroxyanthracene derivatives in Aloe barbadensis	IP (2014) page 1014 BP (2017) IV page 385	1.0 % to 50%
		Total poly phenols in Myrobalans	BP (2017) IV page 405	1.0 % to 50%
		Total Curcuminoids in Curcuma longa	IS - IS10925:1984 IHM - [NR/QCD/ APM06 WI(06)] Issue No: 05 Issue date: 18/04/2016	1.0 % to 10%
		Estimation of Actives/ Markers by HPTLC		
		Forskolin in Coleus forskohlii	IHM - [NR/QCD/ APM06WI(43)] Issue No: 05 Issue date: 18/04/2016	0.10 % to 10%
		Andrographolide in Andrographis paniculata	IHM - [NR/QCD /APM06 WI(44)] Issue No: 05 Issue date: 18/04/2016	0.10 % to 10%
		Bacosides in Bacopa monnieri	IHM - [NR/QCD/ APM06 WI(20)] Issue No: 05 Issue date: 18/04/2016	0.10 % to 10%
		Shatavarins in Asparagus racemosus	IHM - [NR/QCD/APM/ 06WI(15)] Issue No: 05 Issue date: 18/04/2016	0.10 % to 5%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Glycyrrhizin in Glycyrrhiza glabra	AOAC –Journal VOL.93 2010	0.1 % to 3.0%
2.	Herbal Extracts	A. General Tests Loss on drying	IP (2014) – , 2.4.19, BP (2017) Appendix IXD, 2.2.32USP 40 (2016) - Chapter <921> USPDSC Chapter <731> API (Vol: VIII & IX)- Appendix 2.1.4, NR/QCDAPM10WI(06)	1 % to 5% 5 % to 25%
		Moisture content	IP (2014) – , 2.3.43, Method I & Method II, BP (2017) Appendix IXC, 2.5.12USP 40 (2016) – Chapter <921,> USPDSC: Chapter <561> & Chapter Chapter <921>	0.1 % to 1.0% 1.0 % to 20%
		Total Ash Content	IP (2014) – , 2.3.19 BP (2017) 2.4.16 USP 40 (2016) – Chapter <561> USPDSC: Chapter <561> API (Vol: VIII & IX)- Appendix 2.1.5	0.1 % to 5% 5.0 % to 15% 15% % to 50%
		Sulphated ash	IP (2014) - , 2.3.18, USP 40 (2016) – Chapter <281> USPDSC Chapter <281> BP (2017) Appendix IX A, 2.4.14	0.1 % to 5% 5.0 % to 15% 15% % to 50%
		Residue on ignition	USP 40 (2016) – Chapter <281> USPDSC Chapter <281> BP (2017) Appendix IX A	0.1 % to 5% 5.0 % to 15% 15% to 50%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Acid insoluble ash	IP (2014) - , 2.3.19 BP (2017) Appendix XIK, 2.8.1 USP 40 (2016) - Chapter <561>, USPDSC: Chapter <561> API (Vol: VIII & IX)- Appendix 2.1.7,	0.1 % to 5% 5.0 % to 15% 15% to 50%
		Total soluble solids / Total Solids	IP (2014)- , 2.6.5, BP- Appendix XI A API (Vol: VIII & IX)- Appendix 2.1.11	30% to 99%
		pH of 1 to 10% w/v solution suspension	IP (2014)- Physical and Physico- Chemical Method, 2.4.24 USP 40 (2016) – Chapter <791> USPDSC Chapter <791> BP (2017) Appendix V K API (Vol: VIII & IX)- Appendix 2.1.10	4 to 10
		Particle size	IP (2014) - Pharmaceutical method, 2.5.7 USP 40 (2016) - Chapter <786> USPDSC Chapter <786> BP (2017) Appendix XVII A	75 micron to 1mm
		Bulk density	USPDSC<616>	0.01 g/ml to 1.0 g/ml
		Tapped density	USPDSC<616>	0.01 g/ml to 1.0 g/ml
		Volatile oil	BP (2017) Appendix XIE, 2.8.12, USP 40 (2016) – Chapter <561> USPDSC: Chapter <561> API (Vol: VIII & IX)- Appendix 2.1.12	0.5 to 50%

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		Water soluble Extractive values	IP (2014) - , 2.6.3 BP (2017) Appendix XI B USP 40 (2016) - CHAPTER <561>, USPDSC: Chapter <561> Appendix V K API (Vol: VIII & IX)- Appendix 2.1.9	1% to 100%
		Alcohol soluble extractive value	IP (2014)- , 2.6.2 BP (2017) Appendix XIB USP 40 (2016) - CHAPTER <561> USPDSC: Chapter <561> API (Vol: VIII & IX)- Appendix 2.1.8	1% to 60%
		Identification of herbals by TLC	IP (2014) – 2.4.17.BP (2017) Appendix IIIA, 2.2.27, USP 40 (2016) – Chapter <201> API (Vol: IX)- Appendix 3.5 WHO (2002)	
		B. Heavy metals/ Elemental analysis	NR/QCD/APM/09 WI(01) Issue No : 04 Revision date :18.4.2016 USP 40 (2016). Chapter <2232> ICP-MS	0.1mg/kg to 1000mg/kg
		Antimony (Sb)		
		Arsenic (As)		
		Cadmium (Cd)		
		Chromium (Cr)		
		Cobalt (Co)		
		Copper (Cu)		
		Lead (Pb)		
		Nickel (Ni)		
		Selenium (Se)		
		Zinc (Zn)		
		Mercury(Hg)		
		Tin (Sn)		

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Calcium (Ca)		0.5mg/kg to 10000mg/kg
		Magnesium (Mg)		
		Iron (Fe)		0.1mg/kg to 10000mg/kg
		Aluminium(Al)		
		Manganese (Mn)		
		Aflatoxins (B ₁ + B ₂ + G ₁ + G ₂)	NR/QCD/APM 06 WI(37) USP 40 (2016) - Chapter <561> USPDSC: Chapter <561 > Aflacard, NR/QCD/APM06/WI(52)	1 mcg/kg to 5 mcg/kg 4 mcg/kg to 30 mcg/kg
		Ochratoxin A	APM04 WI(136A) BP 2017; Appendix XI S	0.005 mg/Kg to 1 mg/Kg
		Residual Pesticide analysis	[NR/QCD/APM08 WI(01)]- Chlorinated Pesticides and	
		Alachlor	Pyrethroides	0.02 mg/Kg to 1.0 mg/kg
		Aldrin & Dieldrin	AOAC - 970.52	0.02 mg/Kg to 1.0 mg/kg
		Lindane (γ-BHC)	USP 40 (2016) Chapter <565> limits	0.05 mg/Kg to 1.0 mg/kg
		α-Endosulfan		0.05 mg/Kg to 1.0 mg/kg
		β-Endosulfan		0.05 mg/Kg to 1.0 mg/kg
		Endosulphan sulphate	[NR/QCD/APM08 WI(01)]- Chlorinated Pesticides and	0.05 mg/Kg to 1.0 mg/kg
		Endrin	Pyrethroides	0.02 mg/Kg to 1.0 mg/kg
		Ethion		0.05 mg/Kg to 1.0 mg/kg
		Chlorpyrifos ethyl	[NR/QCD/APM08 WI(26)]- Phosphorous pesticides	0.05 mg/Kg to 1.0 mg/kg
		Methyl parathion		0.05 mg/Kg to 1.0 mg/kg
		Parathion	AOAC - 970.52	0.05 mg/Kg to 1.0 mg/kg
		Fenitrothion	USP 40 (2016) Chapter <565> limits	0.05 mg/Kg to 1.0 mg/kg
		Chloropyrifos methyl		0.05 mg/Kg to 1.0 mg/kg
		Cypermethrin and isomers (sum)		0.05 mg/Kg to 1.0 mg/kg
		Deltamethrin		0.05 mg/Kg to 1.0 mg/kg
		Permethrin isomers		0.05 mg/Kg to 1.0 mg/kg
		Phosalone		0.05 mg/Kg to 1.0 mg/kg
		Bromopropylate		0.05 mg/Kg to 1.0 mg/kg

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Total DDT analog 2,4 DDE 4, 4 DDE 2,4 DDD 4, 4 DDD 2, 4 DDT 4, 4 DDT		0.05 mg/Kg to 1.0 mg/kg
		Fenvalerate		0.05 mg/Kg to 1.0 mg/kg
		Dichlorvos		0.05 mg/Kg to 1.0 mg/kg
		Fonofos		0.05-1.0 mg/kg
		Diazinon		0.05 - 1.0 mg/kg
		Azinphos-methyl		0.05 mg/Kg to 1.0 mg/kg
		Azinphos-ethyl		0.05 mg/Kg to 1.0 mg/kg
		Bromophos-ethyl		0.02 mg/Kg to 1.0 mg/kg
		Bromophos-methyl		0.02 mg/Kg to 1.0 mg/kg
		Chlorthal-dimethyl		0.005 mg/Kg to 1.0 mg/kg
		b-Cyfluthrin		0.05 mg/Kg to 1.0 mg/kg
		λ-Cyhalothrin		0.05 mg/Kg to 1.0 mg/kg
		Dieldrin		0.02 mg/Kg to 1.0 mg/kg
		Fenclorophos (Sum of Fenclorophos & Fenclorophos oxon)		0.05 mg/Kg to 1.0 mg/kg
		Fenprothrin	[NR/QCD/APM08 WI(01)]-	0.02 mg/Kg to 1.0 mg/kg
		Chlorfenvinphos	Chlorinated Pesticides and	0.02 mg/Kg to 1.0 mg/kg
		Heptachlor (sum of Heptachlor and Heptachlor epoxide)	Pyrithroides [NR/QCD/APM08 WI(26)]-	0.02 mg/Kg to 1.0 mg/kg
		Hexachlorobenzene	Phosphorous pesticides AOAC - 970.52 USP 40 (2016) Chapter	0.005 mg/Kg to 1.0 mg/kg
		Hexachlorocyclohexane (other than gamma)	<565> limits	0.05 mg/Kg to 1.0 mg/kg
		Malathion and Malaoxon(sum of)		0.05 mg/Kg to 1.0 mg/kg

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		Methacriphos		0.05 mg/Kg to 1.0 mg/kg
		Methidathion		0.02 mg/Kg to 1.0 mg/kg
		Methoxychlor		0.05 mg/Kg to 1.0 mg/kg
		Mirex		0.02 mg/Kg to 1.0mg/kg
		Pendimethalin		0.005 mg/Kg to 1.0mg/kg
		Pentachloroanisole		0.05 mg/Kg to 1.0mg/kg
		Phosmet		0.005 mg/Kg to 1.0mg/kg
		Pyrethrum (sum)		0.05 mg/Kg to 1.0mg/kg
		Quintozene (sum)		0.05 mg/Kg to 1.0mg/kg
		S mg/Kg to 421		0.02 mg/Kg to 1.0mg/kg
		Tecnazene		0.005 mg/Kg to 1.0mg/kg
		Tetradifon		0.02 mg/Kg to 1.0mg/kg
		Vincozolin		0.05 mg/Kg to 1.0mg/kg
		Acephate		0.1 mg/Kg to 1.0mg/kg
		Dimethoate & omethoate (sum of)		0.05 mg/Kg to 1.0mg/kg
		Etrimphos		0.05 mg/Kg to 1.0mg/kg
		Mecarbam		0.05 mg/Kg to 1.0mg/kg
		Fensulphothion (Sum of Fensulphothion, Fensulphothion-oxon, Fensulphothion-oxon sulpon and Fensulphothion-sulpon)		0.05 mg/Kg to 1.0mg/kg
		Methamidophos		0.05 mg/Kg to 1.0mg/kg
		Fenthion		0.05 mg/Kg to 1.0mg/kg
		Monocrotophos		0.05 mg/Kg to 1.0mg/kg
		Pirimiphos-Ethyl		0.05 mg/Kg to 1.0mg/kg
		Pirimiphos-Methyl		0.05 mg/Kg to 1.0mg/kg
		Quinalphos		0.05 mg/Kg to 1.0mg/kg
		Tricyclazole		0.05 mg/Kg to 1.0mg/kg

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

Laboratory Natural Remedies Research and Development Centre, Quality Control Laboratory, Plot No. 5, Veerasandra Industrial Area, 19th Km Stone, Hosur Road, Electronic City (Post), Bengaluru, Karnataka

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		Inorganic bromide		25.0 mg/kg to 1000 mg/kg
		Polyaromatic hydrocarbons Benzo-a-pyrene Benzo-b-fluoranthene Benzo-a-anthracene Chrysene	[NR/QCD/APM04 WI(124)]	0.005 mg/kg to 1.0 mg/kg
		F. Residual Solvent analysis	BP (2017) Appendix VIII L USPDSC Chapter <467>	50 mg/kg to 10000 mg/kg
		1,2- Dichloroethane		
		1,1- Dichloroethane		
		1,1,1- Trichloroethane		
		Acetonitrile		
		Chloroform		
		Chlorobenzene		
		Cyclohexane		
		Hexane		
		1,2-Dichloroethene		
		1,4 Dioxane		
		2-Ethoxyethanol		50 mg/kg to 10000 mg/kg
		Ethylene glycol		
		Methylbutylketone		
		Methylcyclohexane		
		Methylene chloride		
		Nitromethane		
		Pyridine		
		Tetrahydrofuran		
		Methanol		50 mg/kg to 10000 mg/kg
		Toluene		
		Xylene		
		Acetic acid		
		Acetone		50 mg/kg to 10000 mg/kg
		Butanol		
		Ethanol		

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Ethyl Acetate		50 mg/kg to 10000 mg/kg
		Ethylene Dichloride		2.0 mg/kg to 10000 mg/kg
		Benzene		
		Carbon tetra chloride		
		A. Estimation of Phytochemicals / Markers in Herbal extracts by HPLC		
		(-) Hydroxy citric acid and its lactone / (-) Hydroxy citric acid and its Lactone in Garcinia Species	USP 40 (2016) page 6043 IHM - [NR/QCD/APM04 WI(01)] Issue No: 04 Issue date: 21/04/2016 Based on IP (2014) page 3213	For HCA & lactone: 10% to 100%
		Andrographolide, Andrograpanin, 14-deoxy-11,12-didehydroandrographolide/ Neoandrographolide/ Andrographolide in Andrographis paniculata	USP 40 (2016) page 5879 IHM - [NR/QCD/APM04 WI(02)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) – page 3231	5% to 100%
		Forskolin / Forskolin in Coleus forskohlii	USP 40 (2016) page 6030 IHM - [NR/QCD/APM04 WI(03)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 639	5% to 100%
		Asiaticoside, Madecassoside, Asiatic acid and Madecassic acid / Asiaticoside, Madecassoside, Asiatic acid and Madecassic acid in Centella asiatica	USP 40 (2016) page 5953 IHM - [NR/QCD/APM04 WI(04A)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3241	0.5% to 100%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Guggulsterone E & Z / Guggulsterone E & Z in CommIP (2014)hora mukul	USP 40 (2016) page 6093 IHM - [NR/QCD/APM04 WI(05)] Issue No: 04 Issue date: 21/04/2016 Based on IP (2014) page 3219	0.5% to 100%
		Piperine/Piperylene in Piper longum and Piper nigrum	USP 40 (2016) page 5924 IHM - [NR/QCD/APM04 WI(06)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3244	1.0% to 100%
		Mangiferin / Mangiferin in Mangifera indica	IHM - [NR/QCD/APM04WI(07)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3177	1.0% to 100%
		Gallic acid in Phyllanthus emblica/Emblica officinalis	IP (2014) page 3174 IHM - [NR/QCD/APM04 WI(08)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014)	1.0 % to 20%
		Bacoside A / Bacosides in Bacopa monnieri	USP 40 (2016) page 5899 IHM - [NR/QCD/APM04 WI(09)] Issue No: 05 Issue date: 21/04/2016 IP (2014) page 3198	5.0 % to 100%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Luteolin, Apigenin, Bacosine, Bacoside A ₃ , Bacopaside II, Jujubogenin isomer of Bacopasaponin C, Bacopasaponin C, Bacopaside I, in Bacopa monnieri	USP 40 (2016) page 5899 IHM: [NR/QCD/APM04 WI(61)] Issue No: 05 Issue date: 21/04/2016	0.05 % to 2% 1.0 % to 15.0%
		Curcumin, Bisdemethoxy curcumin, Demethoxy Curcumin / Curcumin in Curcuma longa	USP 40 (2016) page 6241 IHM - [NR/QCD/ APM04 WI(10)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3222 USPDSC page 643	1.0 % to 100%
		Capsaicin in Capsicum annum	USP 40 (2016) page 2571 USPDSC page 585	1.0 % to 100%
		Wedelolactone/ Wedelolactone in Eclipta alba	IHM - [NR/QCD/ APM04 WI(14)] Based on IP (2014) page 3194	1.0 % to 100%
		(Withanoside-IV, Withanoside-V, Withaferin-A, 12 Deoxy withastramonolide, Withanolide A, Withanolide B / Total withanolides in Withania somnifera	USP 40 (2016) page 5884 IHM - [NR/QCD/ APM04 WI(17)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3183	0.5 to 100%

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		Gymnemic acid / Gymnemic acid in Gymnema sylvestris	USP 40 (2016) page 6099 IHM - [NR/QCD/ APM04 WI(19)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3216	1.0 % to 100%
		6-gingerol, 8-gingerol, 6- shogaol / Gingerols and shogaols in Zingiber officinale	USP 40 (2016) page 6057 IHM - [NR/QCD/ APM04 WI(20)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3270	1.0 % to 100%
		Total Catechins in Camellia sinensis	USP 40 (2016) page 6090 IHM - [NR/QCD/ APM04 WI(23)] Issue No: 05 Issue date: 21/04/2016	20.0 % to 80%
		Marmelosin in Aegle marmelos	IHM - [NR/QCD/ APM04 WI(25)]	0.5 % to 5%
		Berberine in Berberis aristata	IHM - [NR/QCD/ APM04 WI(27)] Issue No: 05 Issue date: 21/04/2016	1.0 % to 15%
		Vasicine/ Vasicine in Adhatoda vasica	IHM - [NR/QCD/ APM04 WI(29)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3278	1.0 % to 10%
		L-Dopa in Mucuna pruriens	IHM - [NR/QCD/ APM04 WI(31)] Issue No: 05 Issue date: 21/04/2016	1.0 % to 25%

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		Phyllanthin and Hypophyllanthin in Phyllanthus amarus	IHM - [NR/QCD/APM04 WI(37)] , Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3195	0.10 % to 100%
		Sum of Boswellic acid [$\alpha+\beta$] , Acetyl-boswellic acid, 11-keto- β -boswellic acid, Acetyl-11-keto- β -boswellic acid) / Total Boswellic acids in Boswellia serrata	IHM - [NR/QCD/APM04 WI(39)] Issue No: 05 Issue date: 21/04/2016	1.0 % to 100%
		Sennosides A and B in Cassia angustifolia	IHM - [NR/QCD/ APM04 WI(43)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3261, JP - 14th Edition	1.0 % to 40%
		Glycyrrhizin in Glycyrrhiza glabra	IHM - [NR/QCD/ APM04 WI(48)] , Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3282, BP (2017) IV page 264, USP 40 (2016) page 6126, USPDC page 781	2.0 % to 30%
		Punicalagin in Punica granatum	IHM - [NR/QCD/APM04 WI(70)] Issue No: 05 Issue date: 21/04/2016	0.5 % to 15%
		Chebolic acid, Chebulagic acid, Chebulinic acid, Corilagin, 1,3,6-Trigalloyl glucose, Ellagic acid, Gallic acid / in Terminalia bellerica and Terminalia	IHM - [NR/QCD/APM04 WI(64)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) - page 3223	1.0 % to 100%

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		chebula		
		Catechin, Epicatechin in Acacia catechu	IHM - [NR/QCD/ APM04 WI(65)] Issue No: 05 Issue date: 21/04/2016	5.0 % to 75%
		Trigonelline in Trigonella foenum-graecum	IHM - [NR/QCD/ APM04 WI(69)] Issue No: 05 Issue date: 21/04/2016	1.0 % to 10%
		Corosolic acid in Lagerstroemia speciosa (Banaba)	IHM-[NR/QCD/ APM04 WI(71)] Issue No: 05 Issue date: 21/04/2016	0.5 % to 20%
		Harmal alkaloids in Tribulus terrestris	IHM - [NR/QCD/ APM04 WI(47)] Issue No: 05 Issue date: 21/04/2016	1.0 mg/kg to 1000 mg/kg
		Beta-asarone in Acorus calamus	IHM - [NR/QCD/ APM04 WI (78)]	1.0 mg/kg to 1000 mg/kg
		Benzoic acid, Sorbic acid in Garcinia extract	IHM - [NR/QCD/APM04 WI(79)] Issue No: 04 Issue date: 21/04/2016	1.0 mg/kg to 1000 mg/kg
		Coumarin in Cinnamomum cassia	IHM - [NR/QCD/ APM04 WI(68)] Issue No: 05 Issue date: 21/04/2016	10.0 mg/kg to 5000 mg/kg
		Parthenolide in Chrysanthemum parthenium	IHM - NR/QCD/APM04 WI(74)	0.05 % to 2%
		Agnuside in Vitex nigundo	BP (2017) page IV 426	0.05 % to 5%
		Rosmarinic acid in Ocimum sanctum	BP (2017) page IV 92	0.01 % to 2%

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		Rubiadin in Rubia cordifolia	IP (2014) page 3243	0.01 % to 5%
		Arjungenin in Terminalia arjuna	IP (2014) page 3180 BP (2017) IV page 403	0.001 % to 1%
		Para-coumaric acid in Curcuma longa	IHM: NR/QCD/APM04 WI(134) Issue No: 02 Issue date: 21/04/2016	0.01 % to 2.0%
		Kaempferol-3-0-robinobioside-7-0-Glucoside in Withania somnifera	IHM: NR/QCD/APM04 WI(135) Issue No: 05 Issue date: 21/04/2016	0.005 % to 2.0%
		Quercetin-3-0-rutinoside-7-0-Glucoside in Withania somnifera	IHM: NR/QCD/APM04 WI(135) Issue No: 05 Issue date: 21/04/2016	0.005 % to 2.0%
		Quercetin-3-0-rutinoside-7-0-Glucoside in Withania somnifera	IHM: NR/QCD/APM04 WI(135) Issue No: 05 Issue date: 21/04/2016	0.005 % to 2.0%
		Glabridin	IHM NR/QCD/APM04 WI(59) Issue No: 05 Issue date: 21/04/2016	0.1 % to 10.0%
		Kutkin in Picroriza kurroa	IP (2014) page 3235	0.01 % to 2%
		Allicin in Allium sativum	IP (2014) page 3236	0.01 to 1%
		Hypericin & pseudohypericin in Hypericum perforatum	BP (2017) IV page 454	0.001 to 0.1%
		Boeravinone B in Boerhavia diffusa	IP (2014) page 3256	0.001 to 1%
		p-methoxy cinnamic acid ethyl ester in Hedychium spicatum	IP (2014) page 3268	0.001 to 1%

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		Caffeine in Coffea arabica		1% to 40%
		α -mangostin in Garcinia mangostana	IHM - NR/QCD/APM04 WI(72)	0.05 % to 40%
		Steviosides in Stevia rebaudiana	IHM - NR/QCD/ APM04 WI(52) , Issue No: 05 Issue date: 21/04/2016	0.05 % to 5%
		Glycyrrhizic acid, Glabridin, Glabrol, Total flavonoids, Eicosanyl caffeate & Docosyl caffeate in Glycyrrhiza glabra	IHM- NR/QCD/APM04 WI(83) IHM - NR/QCD/ APM04 WI(84) IHM -NR/QCD/APM04 WI(85) IHM -NR/QCD/APM04 WI(90)	0.1 % to 5.0%
		Embelin in Embelia ribes	IHM - NR/QCD/ APM04 WI(95) Issue No: 03 Issue date: 21/04/2016	0.01 % to 5%
		Gardenin A in Gardenia gummifera	IHM - NR/QCD/ APM04 WI(96) Issue No: 03 Issue date: 21/04/2016	0.01 % to 5%
		Colchicine in Gloriosa superba	IHM - NR/QCD/ APM04 WI(97) Issue No: 03 Issue date: 21/04/2016	0.01 % to 1%
		Cladrin, Isoforomonetin, Foromonetin, Cajanin and medicarpine in Butea monosperma	IHM - NR/QCD/ APM04 WI(98)	0.01 % to 5%
		Glycyrrhizic acid, Glabridin, Glabrol, Total flavonoids, Eicosanyl	IHM- NR/QCD/ APM04 WI(83) Issue No: 03	0.1 % to 5.0%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		caffeate & Docosyl caffeate in Glycyrrhiza glabra	Issue date: 21/04/2016 IHM - NR/QCD/ APM04 WI(84) Issue No: 03 Issue date: 21/04/2016 IHM -NR/QCD/ APM04 WI(85) Issue No: 03 Issue date: 21/04/2016 IHM -NR/QCD/ APM04 WI(90) Issue No: 03 Issue date: 21/04/2016	
		Embelin in Embelia ribes	IHM - NR/QCD/ APM04 WI(95) Issue No: 03 Issue date: 21/04/2016	0.01 % to 5%
		Gardenin A in Gardenia gummifera	IHM - NR/QCD/ APM04 WI(96) Issue No: 03 Issue date: 21/04/2016	0.01 % to 5%
		Colchicine in Gloriosa superba	IHM - NR/QCD/ APM04 WI(97) Issue No: 03 Issue date: 21/04/2016	0.01 % to 1%
		Cladrin, Isoforomonetin, Foromonetin, Cajanin and medicarpine in Butea monosperma	IHM - NR/QCD/ APM04 WI(98)	0.01 % to 5%
		Valerenic acid in Valeriana officinalis	USPDSC page 966 BP (2017) IV page 418	0.01 % to 3%
		Nigrumuin 1 Solanum nigrum	IHM-NR/QCD/APM04 WI(126) Issue No: 03 Issue date: 21/04/2016	0.1 to 10

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Arjungenin, Arjunic acid, Arjunolic acid, Arjunetin in Terminalia arjuna	IHM-NR/QCD/APM04 WI(127) Issue No: 03 Issue date: 21/04/2016	0.1 to 2.5
		Agnuside, Negundoside, P-Hydroxy benzoic acid in Vitex negundo	IHM-NR/QCD/APM04 WI(128) Issue No: 05 Issue date: 21/04/2016	0.1 to 25
		Chlorogenic acid in Coffea arabica	IHM-NR/QCD/APM04 WI(132) Issue No: 03 Issue date: 21/04/2016	0.1- 75
		Pterostilbene in Pterocarpus marsupium	IHM-NR/QCD/APM04 WI(129) Issue No: 03 Issue date: 21/04/2016	0.1 to 50
		Sesamin in Sesamum indicum	IHM-NR/QCD/APM04 WI(130) Issue No: 03 Issue date: 21/04/2016	0.1 to 99
		Estimation of Actives/ Markers by Spectrophotometry		
		Hydroxyanthracene glycosides in Cassia angustifolia	BP (2017) IV page 385	1.0 % to 70%
		Hydroxyanthracene derivatives in Aloe	IP (2014) page 1014 BP (2017) IV page 385	1.0 % to 70%
		Total polyphenols in Myrobolans	BP (2017) IV page 405	1.0 % to 50%
		Total curcuminoids in Turmeric (Curcuma longa)	IS - IS10925 IHM -NR/QCD/APM06 WI(06) Issue No: 05 Issue date: 18/04/2016	10 % to 95%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Estimation of Actives/ Markers by HPTLC		
		Forskolin in Coleus forskohlii	IHM -NR/QCD/APM06 WI(43) Issue No: 05 Issue date: 18/04/2016	5 % to 50%
		Andrographolide in Andrographis paniculata	IHM -NR/QCD/APM06 WI(44) Issue No: 05 Issue date: 18/04/2016	5 % to 50%
		Bacosides in Bacopa monnieri	IHM -NR/QCD/APM06 WI(20) Issue No: 05 Issue date: 18/04/2016	5 % to 50%
		Shatavarin in Asparagus racemosus	IHM-NR/QCD/APM06 WI(15) Issue No: 05 Issue date: 18/04/2016	0.5 % to 10%
		Glycyrrhizin in Glycyrrhiza Glabra	AOAC-Journal Vol.93 2010	0.1 % to 25.0%
		Piperine/Piperylene in Piper longum and Piper nigrum	IHM:NR/QCD/APM06/ WI(48)	0.1 % to 3.0%
		Guggulsterone E & Z in Commiphora mukul	IHM:NR/QCD/APM06/ WI(49)	0.05 % to 2.0%
		Estimation of Actives/ Markers by GC		
		Lupeol in Crataeva nurvala	IHM -NR/QCD/APM08 WI(03) Issue No: 04 Issue date: 11/05/2016	0.01 % to 1%
		Ursolic acid and Oleanolic acid in Ocimum sanctum	IHM -NR/QCD/APM08 WI(04) Issue No: 04 Issue date: 11/05/2016 Based on BP (2017) IV Page 92	0.1 % to 10%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Methyl eugenol content in Boswellia serrata	IHM -NR/QCD/APM08 WI(07) Issue No: 04 Issue date: 11/05/2016	50 mg/kg to 5000 mg/kg
		Eugenol and Caryophylline in Basil oil	IHM -NR/QCD/APM08 WI(06) Issue No: 04 Issue date: 11/05/2016 Based on BP (2017) IV Page 92	1.0 % to 99%
5.	Herbal Formulations Capsules Tablets Powders	A. General Test Loss on drying	IP (2014) – , 2.4.19, BP (2017) Appendix IXD, 2.2.32 USP 40 (2016) - Chapter <921> USPDSC Chapter <731> & Chapter <921> API VOL - VI- Appendix 2.2.9 NR/QCD/APM10/06	1 % to 25%
		Weight variation	USPDSC Chapter <2091 >	0.25g to 2 g
		Disintegration time	USPDSC Chapter <701> <2040>	1 min to 60 min
		Water content	IP (2014) – , 2.3.43, Method I & Method II, BP (2017) Appendix IXC, 2.5.12 USP 40 (2016) – Chapter <921>, Pg. 385-387 USPDSC: Chapter <561> & Chapter <921> WHO (2002) - Pg. 31	0.1% to 20%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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		Identification of herbals by TLC	IP (2014) – , 2.4.17 (IHM) BP (2017) Appendix IIIA, 2.2.27 USP 40 (2016) – Chapter <201> API VOL - VI- 2.2.12	-
		B. Heavy metals / Elemental analysis	NR/QCD/APM/09 WI(01) USP 40 (2016) Chapter <2232> ICP-MS	0.05 mg/kg to 10000 mg/kg
		Antimony (Sb)		
		Arsenic (As)		
		Cadmium (Cd)		
		Chromium (Cr)		
		Cobalt (Co)		
		Copper (Cu)		
		Lead (Pb)	NR/QCD/APM/09 WI(01)	0.5mg/kg to 10000mg/kg
		Nickel (Ni)	USP 40 (2016) Chapter <2232>	
		Selenium (Se)	ICP-MS	
		Mercury (Hg)		
		Tin (Sn)		
		Calcium (Ca)		
		Magnesium (Mg)		
		Iron (Fe)		0.1 mg/kg to 10000 mg/kg
		Aluminium(Al)		
		Manganese (Mn)		
		Estimation of Phytochemicals / Markers in Herbal capsule Formulation by HPLC		
		(-) Hydroxy citric acid and its lactone in Garcinia Species	IHM - [NR/QCD/APM04 WI(01)] Issue No: 04 Issue date: 21/04/2016 Based on IP (2014) page 3213	For HCA & lactone: 10 to 100%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Andrographolide, Andrograpanin, 14-deoxy-11,12-didehydroandrographolide Neoandrographolide in Andrographis paniculata/ KalmCold	IHM - [NR/QCD/APM04 WI(02)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) – page 3231	5 % to 100%
		Mangiferin, Methyl gallate & Gallic acid in Mangifera indica/Nr Mangi	IHM - [NR/QCD/APM04 WI(07)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3177	1.0 % to 100%
		Gallic acid in Phyllanthus emblica/Emblica officinalis	IHM - [NR/QCD/APM04 WI(08)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3174	1.0 % to 20%
		Lutelon, Apigenin, Bacosine, Bacoside A ₃ , Bacopaside II, Jujubogenin isomer of Bacopasaponin C, Bacopasaponin C, Bacopaside I and Bacosine in Bacopa monnieri / Bacomind	IHM: [NR/QCD/APM04 WI(61)]	0.05 % to 2% 1.0 % to 15.0%
		Curcumin Bisdemethoxy curcumin Demethoxy Curcumin in Curcuma longa	IHM - [NR/QCD/APM04 WI(10)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) - page 3222, USPDC page 643	1.0 % to 100%

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		(Withanoside-IV, Withanoside-V, Withaferin-A, 12 Deoxy withastramonolide, Withanolide A, Withanolide B and Total withanolides in Withania somnifera	IHM - [NR/QCD/APM04 WI(17)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) – page 3183	0.5 % to 100%
		Total Catechins in Camellia sinensis	IHM - [NR/QCD/APM04 WI(23)] Issue No: 05 Issue date: 21/04/2016	20.0 % to 80%
		Glycyrrhizin in Glycyrrhiza glabra	IHM - [NR/QCD/APM04 WI(48)] Issue No: 05 Issue date: 21/04/2016 BP (2017) IV page 264 USP 40 (2016) page 6126) USPDSC page 781	2.0 % to 30%
		Glycyrrhizic acid, Glabridin, Glabrol, Total flavonoids, Eicosanyl caffeate & Docosyl caffeate in Glycyrrhiza glabra/ Gudgard	IHM- NR/QCD/APM04 WI(83) Issue No: 03 Issue date: 21/04/2016 IHM - NR/QCD/APM04 WI(84)	0.1 % to 5.0%
		Estimation of Phytochemicals / Markers in Herbal capsule Formulation by HPLC	Issue No: 03 Issue date: 21/04/2016 IHM -NR/QCD/APM04 WI(85) Issue No: 03 Issue date: 21/04/2016 IHM -NR/QCD/APM04 WI(90) Issue No: 03 Issue date: 21/04/2016	

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		Chebolic acid, Chebulagic acid, Chebulinic acid, Corilagin, 1,3,6-Trigalloyl glucose, Ellagic acid, Gallic acid / Chebulic acid, Chebulagic acid, Chebulinic acid, Corilagin, 1,3,6-Trigalloyl glucose, Ellagic acid, Gallic acid in Terminalia bellerica and Terminalia chebula	IHM - [NR/QCD/APM04 WI(64)] Issue No: 05 Issue date: 21/04/2016 Based on IP (2014) page 3223	1.0 % to 100%
		Estimation of Actives/ Markers by Spectropho % tometry		
		% total polyphenols in Myrobolans / terminalia arjuna	BP (2017) IV page 405	1.0 % to 50%
		Total curcuminoids in Turmeric (Curcuma longa)	IS - IS10925 IHM -NR/QCD/APM06 WI(06) Issue No: 05 Issue date: 18/04/2016	10 % to 95%
		Estimation of Actives/ Markers by HPTLC		
		Andrographolide in Andrographis paniculata	IHM -NR/QCD/APM06 WI(44) Issue No: 05 Issue date: 18/04/2016	5 % to 50%
		Bacosides in Bacopa monnieri	IHM -NR/QCD/APM06 WI(20) Issue No: 05 Issue date: 18/04/2016	5 % to 50%
		Estimation of Actives/ Markers by GC		
		Ursolic acid and Oleanolic acid in Ocimum sanctum	IHM -NR/QCD/APM08 WI(04) Issue No: 04 Issue date: 11/05/2016 Based on BP (2017) IV Page 92	0.1 % to 10%

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II.	COSMETICS AND ESSENTIAL OILS			
1.	Essential oils and other natural fragrant raw materials	1,8-Cineole in Eucalyptus oil	NR/QCD/APM08 WI(06) Issue No: 04 Issue date: 11/05/2016 Based on BP (2017) IV Page 187 BIS:IS:328-1957 (IHM)	1.0 % to 99%
		Carvone in Spearmint oil	[NR/QCD/APM08 WI(05)] Issue No: 04 Issue date: 11/05/2016 Based on BP (2017)\ IV Page 391 BIS IS:528-1989 (IHM)	1.0 % to 99%
		Alpha-pinene and Alpha-Turpeneol in Pine oil	[NR/QCD/APM08 WI(05)] Issue No: 04 Issue date: 11/05/2016 Based on BP (2017) IV Page 342 BIS IS:5757-1971 (IHM)	1.0 % to 99%
		Menthol in Corn mint/Peppermint oil	[NR/QCD/APM08 WI(05)] Issue No: 04 Issue date: 11/05/2016 Based on BP (2017) IV Page 334 BIS (IHM)	1.0 % to 99%
		Citral in Lemongrass oil	[NR/QCD/APM08 WI(05)] Issue No: 04 Issue date: 11/05/2016 Based on BP (2017) IV Page 260 BIS IS 327:1991(IHM)	1.0 % to 99%

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Relative density	BP (2017) Appendix <2.2.5> IP (2014) page 208 USP (2014) Chapter <831>	0.700 to 1.1000
		Refractive index	BP (2017) Appendix <2.2.6> IP (2014) page 203	1.300 to 1.5000
		Optical rotation	BP (2017) Appendix <2.2.7> IP (2014) page 167	+1° to +90°
		Water	BP (2017) Appendix <2.8.5> IP (2014) page 162 USP 40 (2016) Chapter <921>	0.1 % to 10%
		Solubility in alcohol	BP (2017) Appendix <2.8.10>	-
		Chromatographic profile Alpha -pinene, hexanol, linalool, β-caryophyllene, benzyl salicylate, cineole, decanal, linalyl acetate, eugenol	BP (2017) V A202	1.0 % to 60.0%
2.	Others (Fixed oils)	Specific gravity	USP 40 (2016) Chapter <401>	0.8 to 1.2
		Saponification value	USP 40 (2016) Chapter <401> IP (2014) page 109 BP (2017) Appendix (2.5.6)	5 to 300
		Unsaponifiable matter	USP 40 (2016) Chapter <401> IP (2014) ; page 110 BP (2017) Appendix (2.5.7)	0.5 to 25

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Acid value	USP 40 (2016) Chapter <401>/ IP (2014) page 100 BP (2017) (2.5.1)	0.5 to 50
		Peroxide value	USP 40 (2016) Chapter <401>/ IP (2014) page 109	0.5 to 50
		Hydroxyl value	USP 40 (2016) Chapter <401>/ IP (2014) page 101 BP (2017) (2.5.3)	1to 150
		Iodine value	USP 40 (2016) Chapter <401>/ IP (2014) page 102 BP (2017) (2.5.4)	1 to 150
III.	INDUSTRIAL AND FINE CHEMICALS			
1.	Inorganic Chemicals (Colloidal Silicon Dioxide)	pH	IP (2014)	2.0 to 8.0
		Loss on ignition		Limit test
		Assay		90% to 100 %
2.	Inorganic Chemicals (Light Magnesium Carbonate)	Solubility	BP (2017)	Qualitative
		Identification	USP 40 (2016)	Qualitative
		Heavy metal		Limit test
		Assay		30% to 50 %
3.	Sodium Hydroxide	Carbonates	IP (2014)	Limit test
		Assay		90% to 100 %
4.	Organic Chemicals (Maltodextrin)	pH	USP 40 (2016)	3.0 to 8.0
		Loss on drying		Limit test
		Residue on ignition		Limit test
		Heavy Metals		Limit test
5.	Organic Chemicals (Starch)	Identification	IP (2014)	Qualitative
		Acidity		Limit test
		Iron		Limit test
		Fluorescence		Limit test
		Oxidising substance		Limit test
		Sulphated ash		Limit test
		Loss on drying		Limit test

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
6.	Alcohols and Alcohol Based Chemicals (Methanol)	Solubility	BP (2017) II Page 244	Qualitative
		Identification		Qualitative
		Acidity		Qualitative
		Relative density		0.5 to 1.0
		Absorbance		Qualitative
		Reducing substance		Qualitative
		Residue on evaporation Water		1.0 mg/l to 1000 mg/l 0.05% to 10.0 %
7.	Alcohols and Alcohol Based Chemicals (Ethyl Acetate)	Identification	BP (2017)– I page 934 USPDSC <831>	Qualitative
		Acidity		Qualitative
		Relative density		0.5 to 1.0
		Refractive index		1.2 to 1.5
		Residue on evaporation Water		1.0 mg/l to 1000 mg/l 0.05 % to 10.0 %
8.	Others (Acetone)	Identification	USP 40 (2016), page 1814 USPDSC <841>	Qualitative
		Specific gravity Water		0.5% to 1.5 % 0.05 % to 10.0 %
		Non volatile residue		0.001 mg/L to 1.0 mg/L
		Readily oxidizable substance		Qualitative
		Assay		95.0 % to 100 %
IV.	WATER			
1.	Drinking Water	pH value	IS : 3025-1983, Part 11	6.5 to 8.5
		Total dissolved solids	IS : 3025-1984, Part 16	0.1 mg/L to 2000 mg/L
		Total Hardness	IS: 3025-1983, Part 21	0.1 mg/L to 600 mg/L
		Chloride	IS: 3025-1988, Part 32	0.1 mg/L to 1000 mg/L
		Calcium	IS: 3025-1991, Part 40	0.1 mg/L to 200 mg/L
		Magnesium	IS: 3025-1994, Part 46	0.1 mg/L to 100 mg/L
		Alkalinity & Excess alkalinity	IS : 3025-1986, Part 23	0.1 mg/L to 600 mg/L
		Heavy Metals/ Elemental analysis	USP 40 (2016) <730> NR/QCD/APM/09 WI(01)	0.05 mg/kg to 10000 mg/kg

Bhumi Rajyaguru
Convener

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Antimony (Sb)		
		Arsenic (As)		
		Cadmium (Cd)		
		Chromium (Cr)		
		Cobalt (Co)		
		Copper (Cu)		
		Lead (Pb)		
		Nickel (Ni)		
		Selenium (Se)		
		Mercury (Hg)		
		Tin (Sn)		
		Calcium (Ca)		
		Magnesium (Mg)		
		Iron (Fe)		
		Aluminium(Al)		
		Manganese (Mn)		
2.	Water-From Purifiers	pH value	IS : 3025-1983, Part 11	5.8 to 7.5
		Total Solids	IS : 3025-1984, Part 16	0.1 mg/L to 10 mg/L
		Total Hardness	IS: 3025-1983, Part 21	0.1 mg/L to 25 mg/L
		Total dissolved solids	IS: 3025-1984, Part 16	0.1 mg/L to 100 mg/L
		Heavy Metals/ Elemental analysis	USP 40 (2016) <730> NR/QCD/APM/09 WI(01)	0.05 mg/kg to 10000 mg/kg
		Antimony (Sb)		
		Arsenic (As)		
		Cadmium (Cd)		
		Chromium (Cr)		
		Cobalt (Co)		
		Copper (Cu)		
		Lead (Pb)		
		Nickel (Ni)		
		Selenium (Se)		
		Mercury (Hg)		
		Tin (Sn)		
		Calcium (Ca)		

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		Magnesium (Mg)		
		Iron (Fe)		
		Aluminium (Al)		
		Manganese (Mn)		
		Heavy metals/Elemental analysis	USP 40 (2016)<730>	0.05 mg/kg to 10000 mg/kg

Bhumi Rajyaguru
Convenor

N. Venkateswaran
Program Director