

Laboratory Analytical Research and Development Laboratory, Sami Labs Limited, 19/1 & 19/2, I Main, II Phase, Peenya Industrial Estate, Bangalore, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7053

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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
<u>BIOLOGICAL TESTING</u>				
I.	AYUSH PRODUCTS			
1.1	Herbal Extracts			
	a) Coleus forskohlii extract 10%	Total Aerobic Microbial Count	United States Pharmacopeia	10cfu/g to 5000cfu/g
	b) Natural Sesamin complex 70%	Total Yeast and Mold count	United States Pharmacopeia	10cfu/g to 500cfu/g
	c) Pterocarpus extract 90%	Coliform Count	BAM	10cfu/g to 500cfu/g
	d) Sabiwhite (THC)	<i>Escherichia coli</i>	United States Pharmacopeia	Qualitative (Present/ Absent/10g)
	e) Bioperine,	<i>Staphylococcus aureus</i>	United States Pharmacopeia	Qualitative (Present/ Absent/10g)
	f) Bacopa monniera extract 50%	<i>Salmonella</i>	United States Pharmacopeia	Qualitative (Present/ Absent/10g)
	g) Citrin (Garcinia cambogia extract),	<i>Pseudomonas aeruginosa</i>	United States Pharmacopeia	Qualitative (Present/ Absent/10g)
	h) Ginger soft extract 20%			
	i) Saw palmetto SCF extract			
	j) Omega max			
	k) Curcumin C3 complex			
	l) Monoammonium Glycerrhizinate			
1.2	Herbal Formulation			

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	a) Nilitis SR Tablet b) Glycacare Tablet	Total Aerobic Microbial Count	United States Pharmacopeia	10cfu/g to 5000 cfu/g
		Total Yeast and Mold count	United States Pharmacopeia	10cfu/g to 500 cfu/g
		Total Coliform Count	BAM	10cfu/g to 500 cfu/g
		<i>Staphylococcus aureus</i>	United States Pharmacopeia	Qualitative (Present/ Absent/10g)
		<i>Escherichia coli</i>	United States Pharmacopeia	Qualitative (Present/ Absent/10g)
		<i>Salmonella</i>	United States Pharmacopeia	Qualitative (Present/ Absent/10g)
		<i>Pseudomonas aeruginosa</i>	United States Pharmacopeia	Qualitative (Present/ Absent/10g)
	Cosmetics c) Sabiglow™ ML d) Folliserum™ e) Acelak Face wash g) Bellissa Face wash h) Melalumin Face wash i) Melaglow New j) Niltan SPF k) Tvaksh Face Care l) Melaglow Rich	Total Aerobic Microbial Count	IS14648, United States Pharmacopeia	10cfu/g to 5000 cfu/g
		Total Yeast and Mold count	IS14648, United States Pharmacopeia	10cfu/g to 500 cfu/g
		<i>Staphylococcus aureus</i>	IS14648, United States Pharmacopeia	Qualitative (Present/ Absent/g)
		<i>Escherichia coli</i>	IS 14648, United States Pharmacopeia	Qualitative (Present/ Absent/g)
		<i>Pseudomonas aeruginosa</i>	IS 14648, United States Pharmacopeia	Qualitative (Present/ Absent)
		Preservative Effectiveness Test	United States Pharmacopeia	Effective/ Not effective

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1.3	& Pharmaceuticals			
	a) Alpha lipoate b) N-Acetyl L-Cysteine Enzyme Q10	Total Aerobic Microbial Count	United States Pharmacopeia	10cfu/g to 5000cfu/g
		Total Yeast and Mold count	United States Pharmacopeia	10cfu/g to 500cfu/g
		Coliform Count	BAM	10cfu/g to 500cfu/g
		<i>Escherichia coli</i>	United States Pharmacopeia	Qualitative (Present/ Absent/g)
		<i>Salmonella</i>	United States Pharmacopeia	Qualitative (Present/ Absent/g)
		<i>Staphylococcus aureus</i>	United States Pharmacopeia	Qualitative (Present/ Absent/g)
		<i>Pseudomonas aeruginosa</i>	United States Pharmacopeia	Qualitative (Present/ Absent/g)
1.4	Ayush Products (Bio Assays)			
	a. Resveratrol b. Tetrahydroc urcuminoids C3 reduct, c. Amla extract, d. C3 metabolites, e. C3 complex, f. Garcinol/ Garcinia extract, g. Cyperus rotundus extract	DPPH Radical Scavenging Activity	SLL/STP/BRD-001, Issue No.5, date 15.11.2017	0 to 100% Scavenging activity.
		Reactive Oxygen Species Scavenging Activity.	SLL/STP/BRD-003, Issue No.5, date 15.11.2017	0 to 100% Inhibition of ROS Scavenging activity.
		Oxygen Radical Absorbance Capacity (ORAC).Inhibition of free radical produced by AAPH to fluorescein.	SLL/STP/BRD-004, Issue No.5, date 15.11.2017	1000 to 20000 µmol TE/g. Antioxidant activity is expressed as µmol TE/g

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	h. Calebin, i. Lactosporin , j. LactoSpore k. Moringa seed oil, l. Picetannol, m. Moringa extract, n. Sabroxy, o. Centella asiatica extract, p. Ellagic acid q. Oxyresveretrol r. Pterostilbenes, s. Nigella extract t. Oleanoyl peptides			
	a. LactoSpore, b. Neutral/acid Protease, c. amylase, d. lactase, e. cellulase, f. Digezyme, g. Almond protein	Gluten Assay Gliadin Kit	SLL/STP/BRD-052, issue No.2, date 15.11.2017	Sensitivity range: 0 to 17µg/g

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	a. Amla extract b. Oxyresveretrol, c. Moringa seed oil d. Boswellin, e. cococin, f. LactoSporin, g. Saberry	5-Alpha reductase Inhibition Assay	SLL/STP/BRD-053, issue No.2, date 15.11.2017	0 to 100 % inhibition of the enzyme activity statistically analyzed using graph pad prism.
	a. C3 reduct, Bioperine, c. Amla extract, d. C3 metabolites, e. Salacia Extract, f. Oxyresveretrol, g. Pterostilbenes h. Salicinol	Alpha glucosidase inhibitory assay	SLL/STP/BRD-028, issue No.3, date 15.11.2017	0 to 100% the inhibition of the enzyme activity statistically analyzed using graph pad prism.
	a. Resveratrol b. Coleus c. Forskohlii extract	Melanin Inhibition in B16 F1 cells (Skin lightening activity).	SLL/STP/BRD-015, issue No.5, date 15.11.2017	0 to 100 % inhibition of melanin synthesis

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	d. SABI White (Tetrahydrocurcuminoids C3 reduct, e. Bioperine, f. Amla extract, g. C3 metabolites, h. Calebin, i. Lactosporin, j. Picetannol k. Sabroxy, l. Ellagic acid, m. Oxyresveretrol n. Pterostilbenes, o. Oleanoyl peptides	Anti-Tyrosinase Activity. Inhibition of Mushroom tyrosinase, rate limiting enzyme for Melanin synthesis	SLL/STP/BRD-022, issue No.5, date 15.11.2017	0 to 100% Inhibition of the enzyme activity
	a. Oleanoyl peptides, b. Centella asiatica extract, c. Sabroxy, d. Pterowhite e. Calebin and its derivatives	Anti-Collagenase Activity. EnzCheck Collaganase assay kit.	SLL/STP/BRD-007, issue No.5, date 15.11.2017	0 to 100% Inhibition of the enzyme activity LoD: 3×10^{-4} U of enzyme.
		Anti-Elastase Activity EnzCheck elastase assay kit.	SLL/STP/BRD-008, issue No.5, date 15.11.2017	0 to 100% Inhibition of the enzyme activity LoD: 5×10^{-3} U/ml of elastase from porcine pancreas.

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1.5	Products Toxicity studies			
	a. Resveratrol	Cyto-toxicity Screening – SRB. Viability of the cells is assessed by measuring the total protein by SRB staining method.	SLL/STP/BRD-012, issue No.5, date 15.11.207	0 to 100% Cyto toxicity
	b. Coleus forskohlii extract			
	c. Tetrahydroc urcuminoids/C3 reduct,	Cyto-toxicity Screening – NRU	SLL/STP/BRD-013, issue No.5, date 15.11.2017	0 to 100% Cyto toxicity
	d. Bioperine,			
	e. Amla extract			
	f. C3 metabolites,			
	g. C3 complex,			
	h. Garcinol/ Garcinia extract,			
	i. Cyperus rotundus extract.			
	j. Calebin,			
	k. Salacia extract,			
	l. Salicinol,			
	m. Lactosporin,			
	n. Picetannol,			
	o. Sabroxy,			
	p. Centella asiatica extract,			
	q. Ellagic acid,			
	r. Oxyresveretr ol,			
	s. Pterostilbene			
	S,			

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t.	Nigella extract,			
a. b. c. d. e. f. g. h.	Face wash, Skin lightening cream, Hair serum, Skin lightening lotions, Face scrub, Lip balm, Lactosporin Oleanoyl peptides	Ocular Irritation Study by Irritection® Assay system Eye Irritation potential	SLL/STP/BRD-017, issue No.5, date 15.11.2017	Irritancy scored as Irritection Draize Equivalent (IDE) by the Irritection® Score: 0 to 51 (Non Irritant to Severe Irritant)
		Dermal Irritation Study by Irritection® Assay system Dermal irritation potential	SLL/STP/BRD-018, issue No.5, date 15.11.2017	Irritancy scored as Human Irritancy Equivalent (HIE) by the Irritection® Score: 0 to 5 (Non irritant to Irritant)

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CHEMICAL TESTING				
I.	AYUSH PRODUCTS			
1.1	Extracts			
	a) Coleus Forskohlii -10%	Identification	SLL/STP- F- 006, Issue No.5, issue date 25.11.2017	Qualitative
	b) Pterocarpus extract-90%	Identification	SLL/STP-P-011, Issue No.5, issue date 25.11.2017	Qualitative
	c) Bacopa monniera 50%	Identification	United States Pharmacopeia	Qualitative
	d) Citrin (Garcinia cambogia extract)	Identification	United States Pharmacopeia	Qualitative
	e) Natural Sesamin extract 70%	Identification	SLL/STP-S-006, Issue No.5, issue date 25.11.2017	Qualitative
	f) White hydrocurcumin)	Identification	SLL/STP-T-006, Issue No.5, issue date 25.11.2017	Qualitative
	g) Ginger soft SCF extract 20%	Identification	SLL/STP-G-030 Issue No.1, issue date 09.01.2018	Qualitative
	h) Piperine (Tetrahydropiperine)	Identification	SLL/STP-T-001, Issue No.5, issue date 25.11.2017	Qualitative

Vinay Kumar Tyagi
Convener

N. Venkateswaran
Program Director

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	a) Coleus Forskohlii -10% b) Pterocarpus extract - 90% c) Garcinia cambogia extract, d) Natural Sesamin complex 70%, e) Sabiwhite (Tetrahydrocurcumin)	Loss on drying	United States Pharmacopeia	0.2% to 15.0%
	a) Bacopa monniera extract 50%	Ash content	United States Pharmacopeia	0.01% to 10%
	b) Sabi white (Tetrahydrocurcumin)	Residue on ignition	United States Pharmacopeia	0.01% to 2%
	HPLC Assay			
	a) Coleus Forskohlii 10%	Forskolin content	SLL/STP- F- 006, Issue No.5, issue date 25.11.2017	8.0% to 13%
	b) Pterocarpus extract 90%	Pterostilbene content	SLL/STP-P-011, Issue No.5, issue date 25.11.2017	30% to 100%
	c) Garcinia Cambogia extract	Hydroxy Citric acid content	USP 40- NF 35, 2017, page No. 6983-6984	40% to 70%
	d) Ginger soft SCF extract 20%	Content of 6, 8 and 10 Gingerols	United States Pharmacopeia	15% to 30%
	e) Natural Sesamin complex 70%	Sesamin and Sesamolin content	SLL/STP-S-006,	60 % to 90%

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			Issue No.5, issue date 25.11.2017	
	f) Sabiwhite (Tetrahydrocurcumin)	Tetrahydrocurcumin content	SLL/STP-T-006, Issue No.5, issue date 25.11.2017	85% to 100%
	g) Cosmoperine (Tetrahydro-piperine)	Tetrahydro piperine content	SLL/STP-T-001, Issue No.5, issue date 25.11.2017	85% to 100%
	h) Omega Max Composition : Linus usitatissimum, Carthamus tinctorius andOlea europaea	Linolenic acid content (Omega 3)	SLL/STP-F-005, Issue No.5, issue date 25.11.2017	20% to 80%
		Linoleic acid content (Omega-6)	SLL/STP-F-005, Issue No.5, issue date 25.11.2017	3 to
		Oleic acid (Omega -9)	SLL/STP-F-005, Issue No.5, issue date 25.11.2017	5 % to 50%
		Palmitic acid	SLL/STP-F-005, Issue No.5, issue date 25.11.2017	1% to 10%
		Stearic acid	SLL/STP-F-005, Issue No.5, issue date 25.11.2017	1% to 10%
	i) Saw Palmetto SCF Extract 85%	Total fatty acids by GC	United States Pharmacopeia	50% to 98%
		Water content by KF method	United States Pharmacopeia	0.1% to 5%

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		Saponification value	United States Pharmacopeia	100 to 500
		Acid value	United States Pharmacopeia	100 to 500
		Specific gravity	United States Pharmacopeia	0.5 to 1
	a) Coleus Forskohlii-10%	Lead content	United States Pharmacopeia, SLL/STP-H-018, Issue No.5, issue date 15.11.2017	1.1 µg/g to 10 µg/g
	b) Pterocarpus extract 90%	Arsenic content	United States Pharmacopeia, SLL/STP-H-018, Issue No.5, issue date 15.11.2017	0.05 µg/g to 3 µg/g
	c) Bacopa monniera extract 50%	Cadmium content	United States Pharmacopeia, SLL/STP-H-018, Issue No.5, issue date 15.11.2017	0.05 µg/g to 3 µg/g
	d) Garcinia cambogia extract	Mercury content	United States Pharmacopeia, SLL/STP-H-018, Issue No.5, issue date 15.11.2017	0.01 µg/g to 2 µg/g
	d) Natural Sesamin complex 70%			
	e) Sabiwhite (trahydrocurcumin)			
	g) Omega max			
	h) Saw Palmetto SCF extract 85%			
	i) Ginger soft SCF extract 20%			
	j) Cosmoperine			

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	(Tetra hydro piperine)			
1.2	Herbal Formulations			
	a) NILTIS SR Tablets Composition : Boswellia serrata extract, Curcuma longa extract, Ginger soft SCF Extract and Piper nigrum Extract (Black pepper Extract)	Description	SLL/STP-D-028 issue No. 2, issue date 05.04.2018	Qualitative
		Average weight of tablets	United States Pharmacopeia	800 mg to 1240 mg
		Loss on drying	United States Pharmacopeia	0.1% to 6%
		Assay by HPLC a. AKBBA Acetyl Keto Beta Boswellic Acid	SLL/STP-A, 039, issue No. 4, issue date, 11.07.2017.	100 mg to 300 mg/tablet
		b. Curcuminoids	SLL/STP-C-051, issue No.3, issue date 25.11.2017	100 mg to 300 g/tablet
		c. 6, 8 and 10 Gingerols	United States Pharmacopeia	100 mg to 200 mg/tablet
		d. Piperine	SLL/STP-C-051, Issue No. 3 , issue date 25.11.2017	2.0 µg/g to 10.0 mg/tablet
		Lead	United States Pharmacopeia, SLL/STP-H-018, Issue No.3 , issue date 15.11.2017	0.1 µg/g to 10 µg/g
		Arsenic	United States Pharmacopeia,	0.05 µg/g to 3 µg/g

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		Cadmium	United States Pharmacopeia, SLL/STP-H-018, Issue No.3 , issue date 15.11.2017	0.05 µg/g to 3 µg/g
		Mercury	United States Pharmacopeia, SLL/STP-H-018, Issue No.3 , issue date 15.11.2017	0.01 µg/g to 2 µg/g
	b) Sabi Glow ML Composition : Kojic Dipalmitate, Niacinamide, Broussonetia Kazinoki Root Extract, Acetyl Glucosamine, Morus Alba Bark Extract, Pyrus Malus (Apple) Fruit Extract, Camellia Japonica Leaf Extract, Camellia Sinensis Leaf Extract, Centella Asiatica Extact, Galactaroarabinan ,Ergosterol,	Assay by HPLC a.Pterostilbene b.Mandelic acid	SLL/STP-P-044, Issue No.2, date, 25.11.2017 SLL/STP-M-028, Issue No. 2, issue date 25.11.2017	0.05 %w/w to 0.3%w/w 0.4 % w/w to 2.0% w/w
		Lead	United States Pharmacopeia, SLL/STP-H-018, Issue No. 3, issue date15.11.2017	1.1 µg/g to 10 µg/g
		Arsenic	United States Pharmacopeia, SLL/STP-H-018, Issue No. 3, issue date15.11.2017	0.05 µg/g to 5 µg/g
		Cadmium	United States Pharmacopeia, SLL/STP-H-018, Issue No. 3, issue date15.11.2017	0.05 µg/g to 5 µg/g

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	Mandelic acid and Pterocarpus Marsupium Bark extract	Mercury	United States Pharmacopeia, SLL/STP-H-018, Issue No. 3, issue date 15.11.2017	0.01 µg/g to 2 µg/g
	C) Folliserum Polysorbate 20, Butylene Glycol, PPG – 26-Buteth-26, PEG – 40 Hydrogenated Castor oil, Oleanolic Acid, Biotinoyl Tripeptide – 1, Glycerin, PEG – 8, Pamitoyl myristyl serinate, Sodium Polyacrylate, Cetearamidoethyl diethonium Succinoyl, Cetearamidoethyl diethonium Succinoyl, Hydrolyzed Pea Protein, Helianthus Annus Seed Extract, Niacinamide, 12 Dimethicone,	Assay by HPLC Niacinamide	SLL/STP-N-011, issue No.4, issue date 25.11.2017	0.4% to 2.0% w/w

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	Adenosine, Hydroxyethyl Cellulose, Phenoxyethanol Methylisothiazolone and Melatonin.			
2.0	Drugs & Pharmaceuticals (API) a) N- Acetyl -L- Cysteine b) Alpha Lipoic acid (Alpha Lipoate) c) Ubidecarenone, (Co- Enzyme Q10)	Description	SLL/STP-D-028, issue No.2, issue date 05.04.2018	Qualitative
	a) N- Acetyl -L- Cysteine b) Alpha Lipoic acid (Alpha Lipoate) c) Ubidecarenone, (Co- Enzyme Q10)	Loss on drying	United States Pharmacopeia	1.1 % to 3%
	a) N- Acetyl -L- Cysteine b) Alpha Lipoic acid (Alpha Lipoate) c) Ubidecarenone, (Co- Enzyme Q10)	Residue on Ignition	United States Pharmacopeia	0.05% to 3%
	a) N- Acetyl -L- Cysteine	pH	United States Pharmacopeia	2 to 14
	a) N- Acetyl -L- Cysteine	Specific Optical Rotation	United States Pharmacopeia	(-)50° to +85°
	Alpha Lipoic acid (Alpha Lipoate)	Specific Optical Rotation	United States Pharmacopeia	(-)1.0° to 1.0°

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	Ubidecarenone (Co- Enzyme Q10)	Water content by KF method	United States Pharmacopeia	0.05%to 10%
	a) N- Acetyl – L-Cysteine	Assay by HPLC N- Acetyl – L- Cysteine content	United States Pharmacopeia	80% to 102%
	(b) Alpha Lipoic acid (Alpha Lipoate)	Alpha Lipoic acid content	United States Pharmacopeia	80 %to 101%
	Ubidecarenone, (Co-Enzyme Q10)	Ubidecarenone content	United States Pharmacopeia	80% to 101%
	a) N- Acetyl -L- Cysteine	Lead content :	United States Pharmacopeia, SLL/STP-H-018, Issue No. 3, Issue date 15.11.2017	0.1 µg/g to 10µg/g
	b)Alpha Lipoic acid (Alpha Lipoate)	Arsenic content :	United States Pharmacopeia, SLL/STP-H-018, Issue No. 3, Issue date 15.11.2017	0.05 µg/g to 3µg/g
	c) Ubidecarenone, (Co- Enzyme Q10)	Cadmium content :	United States Pharmacopeia, SLL/STP-H-018, Issue No. 3, Issue date 15.11.2017	0.05 µg/g to 3µg/g
		Mercury content :	United States Pharmacopeia, SLL/STP-H-018, Issue No. 3, Issue date 15.11.2017	1.01 µg/g to 2 µg/g