



## FINISHED PRODUCT SPECIFICATION

<b>Product</b> PTEROWHITE® 90%	<b>Issue No.</b> 3.0	<b>Supersedes</b> Issue No.2 dtd 05/16/2011	<b>Page Number</b> Page 1 of 2
<b>Prepared by</b> CHAYADEVI Junior Executive	<b>Approved by</b> Dr.S Natarajan Executive Vice President	<b>Effective date</b> June 14, 2014	<b>Review date</b> June 13, 2017

Product code	1675	
Category	Intended for Cosmeceutical application	
Botanical/Scientific name	Pterocarpus marsupium	
CAS No	Pterostilbene: 537-42-8 (trans)	
Plant part	Wood	
Preparation type	Extraction	
Solvent used for extraction	Methanol	
Solvent used in manufacture	Hexane, Ethyl acetate and Ethanol	
Final extract ratio	200:1 to 225:1	
Standardization	Pterostilbene	
Excipient used	None	
<b>Parameters</b>	<b>Limit</b>	<b>Reference</b>
<b>PHYSICAL</b>		
Description	Off white powder*	Visual
Identification	To comply by HPLC	SLL/STP-P-011**
Solubility	Soluble in alcohol, insoluble in water	USP
Loss on drying	Not more than 2.0% w/w (dried at 80°C, under vacuum)	USP <731>
Tapped bulk density	Between 0.35g/ml and 0.55g/ml	USP <616>
Loose bulk density	Between 0.25g/ml and 0.45g/ml	USP <616>
Sieve Test(Passes Through)		USP <786>
- 20 Mesh	Not less than 100% w/w	
- 40 Mesh	Not less than 85 % w/w	
- 80 Mesh	Not less than 70 % w/w	
<b>CHEMICAL</b>		
Assay		
-Content of Pterostilbene by HPLC	Not less than 90.0% w/w and not more than 95.0% w/w on dry basis	SLL/STP-P-011**
<b>OTHERS</b>		
Total heavy metals	Not more than 20 ppm (µg/g)	USP <231> Method II
Lead	Not more than 3 ppm (µg/g)	ICP-OES, SLL/STP-H-006**
Arsenic	Not more than 1 ppm (µg/g)	ICP-OES, SLL/STP-H-006**
Cadmium	Not more than 1ppm (µg/g)	ICP-OES, SLL/STP-H-006**
Mercury	Not more than 0.1ppm (µg/g)	ICP-OES, SLL/STP-H-006**
Residual solvents	To comply as per USP	USP <467>
Residual pesticides	To comply as per USP	USP <561>
<b>MICROBIAL</b>		



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Parameters	Limit	Reference
Total aerobic microbial count	Not more than 5000cfu/g	USP <61>
Total yeasts and molds count	Not more than 100cfu/g	USP <61>
Escherichia coli	Negative/10g	USP <62>
Salmonella	Negative/10g	USP <62>
Staphylococcus aureus	Negative/10g	USP <62>
Pseudomonas aeruginosa	Negative/10g	USP <62>

### ADDITIONAL INFORMATION

Sanitizing treatment	Non-irradiated and not treated with ETO
Certification status (Kosher/Halal)	Kosher certified, Halal certified
Genetic Modification Status	GMO free
BSE/TSE status	BSE / TSE free
Country of origin	India
Cultivated or wild crafted	Cultivated
Storage condition	Store at room temperature
Shelf Life	5 Year(s)
Manufactured by	Sami Labs Limited 19/1,19/2 I Main, II Phase,Peenya Industrial Area,Bangalore - 560058, Karnataka, India

\*Since it is a herbal product, there is likely to be minor color variation because of the geographical and seasonal variations of the raw material.

\*Natural products can be hygroscopic and tend to agglomerate sometimes. It is suggested to sift before use.

**\*\*In-House developed and validated methods**

***NAP:Not Applicable***

***NAV:Not Available***