

**SAMI-SABINSA GROUP LIMITED**

sami-sabinsagroup.com



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CERTIFICATE OF ANALYSIS

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Product Name : BIOPERINE® (BLACK PEPPER EXTRACT) CH
Product Code : 0215CH **SAP Code** : 120000043
Batch No. : C242108 **Date of Manufacture** : Nov 19th - 2024
T R No. : 40000018973 **Date of Expiry** : Nov 18th - 2029

Category : Intended for Nutraceutical application
Botanical name : Piper nigrum
CAS No : 94-62-2
Plant part : Fruits
Preparation type : Extraction
Standardization : Piperine
Excipients used : None

Parameter	Result	Limit	Reference
Physical			
Description	Complies	Off white to greenish yellow powder with characteristic odour*	Visual and Organoleptic
Identification	Complies	To comply by HPLC	SLL/STP-P-007
Solubility	Complies	Soluble in alcohol; insoluble in water	USP
Loss on drying	0.93 % w/w	Not more than 2.0% w/w (dried at 105°C)	USP <731>
Ash content	0.28 % w/w	Not more than 0.5% w/w	USP <561>
Tapped bulk density	0.63 g/ml	Between 0.55g/ml and 0.85g/ml	USP <616>
Loose bulk density	0.39 g/ml	Between 0.30g/ml and 0.65g/ml	USP <616>
Sieve Test (Passes through)			USP <786>
- 80 mesh	98.27 % w/w	Not less than 95% w/w	
Chemical			
Assay			
-Content of Piperine by HPLC	95.44 % w/w	Not less than 95.0% w/w and not more than 102.0% w/w on dry basis	SLL/STP-P-007
Others			
Lead	<0.2 ppm (µg/g)	Not more than 3ppm (µg/g)	USP <2232>
Arsenic	<0.2 ppm (µg/g)	Not more than 1ppm (µg/g)	USP <2232>
Cadmium	<0.2 ppm (µg/g)	Not more than 1ppm (µg/g)	USP <2232>
Mercury	<0.02 ppm (µg/g)	Not more than 0.1ppm (µg/g)	USP <2232>
Residual solvents	Complies	To comply as per USP	USP <467>
Residual pesticides	Complies	To comply as per USP	USP <561>

Corporate Office:

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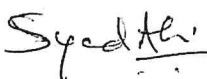
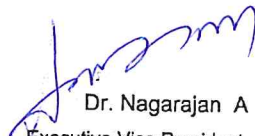
CIN: U24249KA1991PLC011880





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Product Name	: BIOPERINE® (BLACK PEPPER EXTRACT) CH		
Batch No.	: C242108		
Microbiological Profile			
Total aerobic microbial count	<100 cfu/g	Not more than 3000cfu/g	USP <2021>
Total yeasts and molds count	<10 cfu/g	Not more than 100cfu/g	USP <2021>
Escherichia coli	Complies	Negative/10g	USP <2022>
Salmonella	Complies	Negative/10g	USP <2022>
Staphylococcus aureus	Complies	Negative/10g	USP <2022>
Pseudomonas aeruginosa	Complies	Negative/10g	USP <62>
Bile tolerant Gram negative bacteria	<10 cfu/g	Not more than 100cfu/g	USP <2021>
Coliforms	<10 cfu/g	Less than 10cfu/g	BAM 2001, 8th Edition, Chapter 4
Additional Information			
Certification status (Kosher/Halal)	Kosher and Halal certified		
BSE/TSE status	BSE / TSE free		
Genetic Modification Status	GMO free		
Country of origin	India		
Cultivated or wild crafted	Cultivated		
Storage Condition	Store at room temperature		
*Since it is a herbal product, there is likely to be minor colour variation from batch to batch of the product because of the geographical and seasonal variations of the raw material. *Natural products can be hygroscopic and may agglomerate sometimes. It is suggested to sift the product before use.			
Remarks : The product complies as per the specification No. FPS/ARD/511, Issue No. 4 Dated: 08.09.2021			
Disclaimer: Suitability of this product for its particular use is at the sole discretion of the purchaser.			
Prepared By  Sayyed Ali S Nadaf Senior Manager-QC	Checked By  Mubarak Pasha Senior Manager - Analytical R&D	Approved By  Dr. Nagarajan A Executive Vice President - R&D	
Date: 28-Nov-2024			

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