

Certificate of Analysis

47 W Polk St. STE 100-241 Chicago, IL 60605 liftmode@liftmode.com

Lift \\ode

Piperine

From Piper Nigrum

Material Lot #: 2021026504 Test Date:

04-11-2022

Country of Origin:

Re-Test Date:

04-08-2025

Analysis

Claim

Result

Piperine

≥95%

97.8%

Test	Specification	Result
Piperine (HPLC)	≥95%	%97.8
Lead	≤0.5ppm	<0.005 ppm
Mercury	≤0.5ppm	<0.005 ppm
Cadmium	≤0.5ppm	<0.005 ppm
Arsenic	≤0.5 ppm	<0.01 ppm
Total Aerobic Plate Count	<1000 cfu/g	<10 cfu/g
Yeast	<100 cfu/g	<10 cfu/g
Moulds	<100 cfu/g	<10 cfu/g
Escherichia coli	<10 cfu/g	<10 cfu/g
Coliforms	<10 cfu/g	<10 cfu/g
Salmonella	Negative	Negative
Staphylococcus aureus	<10 cfu/g	<10 cfu/g
		<u></u>

Piperine should be stored at or below room temperature in a tightly sealed durable container. Piperine should be protected from excess heat, direct sunlight, excess humidity, and moisture. Piperine has a retesting period of 3 years from the date of analysis when properly stored.

Piperine

Main Benefits

- When taken as a dietary supplement, Piperine has the ability to significantly improve the absorption and uptake of many dietary supplements.
- Piperine may also have powerful anti-oxidant effects and support a healthy circulatory system.
- Piperine may also slow intestinal removal of supplements. These effects allow your body to better absorb supplements that are metabolized by the liver.

Main Cautions

- Piperine is the extracted active compound from black pepper which is generally regarded as safe for consumption around the world.
- There may be significant interactions between Piperine and medication. If you are taking any medication, it is very important that you consult with your doctor before using this supplement.
- · Do not exceed the suggested serving size for Piperine supplements.

Usage Tips

- · A disposable double sided measuring scoop is included. Two level scoops from the small end contains approximately one serving, or approximately **8-10mg of Piperine.** As a dietary supplement, take 1-4 servings up to three times per day (optimally, 1 hour prior to taking other supplements). Start at the lower suggested quantity to assess response.
- The negative effects of Piperine are dependent on the amount taken, so use of a scale with 10mg/0.01g accuracy or better is highly recommended.
- · Use of capsules, or mixing with tea, yogurt, apple sauce, or oatmeal may help make the powder more
- This supplement is not intended to treat, diagnose, prevent, or cure any diseases. Consult your healthcare provider before use if you have a medical condition or if you are taking any prescrip-
- It is safe to stack Piperine with other supplements. so long as the amount consumed does not exceed the suggested serving size.
- The benefits of Piperine are most effective when they are supported by a healthy diet and plenty of



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Eurofins Microbiology Laboratories (New Berlin)

2345 S. 170th St. New Berlin, Wisconsin 53151 +1 262 754 5300 Micro-MKE@EurofinsUS.com

Synaptent

Quality Control Department (COA) 425 BARCLAY BOULEVARD Lincolnshire, IL 60069

ANALYTICAL REPORT

AR-22-QH-019691-01

Client Code: QH0000902 PO#: 2021026504

Received On: 07Apr2022 Reported On: 12Apr2022

Eurofins Sample Code:	477-2022-04070	152 Sample Registration	n Date: 07Apr2022		
Client Sample Code:	2021026504	Condition Upon Re	ceipt: acceptable, 16.3°C		
Sample Description:	Piperine	Sample Reference:			
FS001 - Heavy Metals (A Pb)	s, Cd, Hg, and	Reference AOAC 2011.19 and 993.14 (modified)	Accreditation ISO/IEC 17025:2017 A2LA 2918.01	Completed 12Apr2022	Sub 1
Parameter		Result			
Arsenic		<10.0 ppb			
Cadmium		<5.00 ppb			
Lead		<5.00 ppb			
Moreury		<5.00 pph			

Chapter 9.933	CMMEF Chapter 9.933	ISO/IEC 17025:2017 A2LA 3329.07	08Apr20
Barameter	Docult		

Coliforms < 10 cfu/a Parameter < 10 cfu/q Escherichia coli

UMDTC - Salmonella species - AOAC-RI	Reference	Accreditation	Completed
121501	AOAC-RI 121501	ISO/IEC 17025:2017	08Apr2022
		A 21 A 2220 07	

Result Not Detected per 25 g Salmonella

UMHBM - Staphylococcus aureus - BAM	Reference	Accreditation	Comp
Chapter 12	RAM Chanter 12	ISO/IEC 17025:2017	09Anr

Parameter Result

	•	
UMIB1 - Yeast - FDA BAM Chapter 18	Reference	C c
mod.	FDA BAM Chapter 18 mod.	12

Parameter Result

Page 1 of 2

4/12/22 11:22 pm



S & N LABS

2021 E. Fourth Street

Santa Ana, California 92705

(714) 543-2211

12 April 2022

Job Number:	25857b
PO Number:	verbal

A2LA 3329.07

Synaptent LLC 47 W. Polk Street #100-241 Chicago, Illinois 60605

REPORT OF ANALYSIS

One small jar labeled "Piperine #2021026504" was received on 8 April 2022. The contents of the jar were analyzed for purity using high pressure liquid chromatography (HPLC). The detector was set to 250nm. The results are summarized in the table below.

Sample	Chromatographic Purity (% area)
Piperine #2021026504	97.8

Neil E. Spingarn, Ph.D.

President

Parameter

Quality Control Department (COA) 425 BARCLAY BOULEVARD Lincolnshire, IL 60069

ANALYTICAL REPORT

AR-22-QH-019691-01

Client Code: QH0000902 PO#: 2021026504

Received On: 07Apr2022 Reported On: 12Apr2022

Eurofins Sample Code: Client Sample Code: Sample Description: 477-2022-04070152 2021026504 Piperine Sample Registration Date: 07Apr2022 Condition Upon Receipt: acceptable, 16.3°C UMIB1 - Yeast - FDA BAM Chapter 18 Reference FDA BAM Chapter 18 mod. Completed 12Apr2022

Yeast < 10 cfu/a Result < 10 cfu/q Moulds UMVSE - Aerobic Plate Count - CMMEF Chapter 8.72 Reference CMMEF Chapter 8.72

Result

Accreditation ISO/IEC 17025:2017 A2LA 3329.07 Completed 09Apr2022

Parameter Aerobic Plate Count Result < 10 cfu/g

Subcontracting partners: 1 - Eurofins Food Chemistry Testing US Madison, WI

Respectfully Submitted, Anthony Bicher



Anthony Bichler Operations Supervisor

Results shown in this report relate solely to the item submitted for analysis. | Any opinions/interpretations expressed on this report are given independent of the laboratory's scope of accreditation. | All results are reported on an "As Received' basis unless otherwise stated. (Reports shall not be reproduced except in full without written permission of Eurofins Scientific, Inc., | All work done in accordance with Eurofins General Terms and Conditions of Sale: www.eurofinaus.com/terms and conditions and juil 'I indicate a subcontract test to a different tab, table) are listed at end of the report, for further details about the performing labs please contact your customer service contact at Eurofins. Measurement of uncertainty can be obtained upon request.

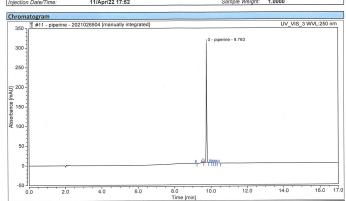
Page 2 of 2

4/12/22 11:22 pm

trument:Ultimate3000 Sequence:25857 - curcumin piperine purity by HPLC

Page 1 of 3

Chromatogram and Results					
Injection Details					
Injection Name:	piperine - 2021026504	Run Time (min):	20.00		
Vial Number:	RA4	Injection Volume:	20.00		
Injection Type:	Unknown	Channel:	UV_VIS_3		
Calibration Level:		Wavelength:	342.0		
Instrument Method:	piperine purity method	Bandwidth:	10		
Processing Method:	piperine purity processing	Dilution Factor:	1.0000		
Injection Date/Time:	11/Apr/22 17:52	Sample Weight:	1.0000		



Inte	gration Results						
No.	Peak Name	Retention Time	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount µg/ml
1		9.183	0.026	0.693	0.22	0.22	n.a.
2		9.557	0.158	4.102	1.29	1.31	n.a.
3	piperine	9.763	11,977	305.972	97.81	97.91	n.a.
4		9.983	0.037	0.866	0.30	0.28	n.a.
5		10.083	0.009	0.151	0.08	0.05	n.a.
6		10.190	0.004	0.112	0.03	0.04	n.a.
7		10.287	0.006	0.157	0.05	0.05	n.a.
8		10.440	0.027	0.465	0.22	0.15	n.a.
Tota	ı.		12.245	312.518	100.00	100.00	

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