



# Twin Arbor Analytical

Your Quality Control Lab

3990 Ruth Way Suite D, Paso Robles, CA 93446 · 805-369-2123 · www.twinarborlabs.com



## Certificate of Analysis

<b>Accession:</b>	4677	<b>STAT</b>	<b>Client:</b>	ProHealth	<b>Collection Date:</b>	6/21/2023 12:36 PM	PC
<b>External No:</b>	3191-LN			555 Maple Ave	<b>Received Date:</b>	6/21/2023 1:56 PM	SP
<b>Product:</b>	Berberine Pro			Carpinteria, CA 93013	<b>Reported Date:</b>	7/26/2023 11:52 AM	
<b>Product Code:</b>	PH613				<b>Report Status:</b>	FINAL	
<b>Invoice:</b>	3188	<b>Batch or Lot ID:</b>	FC030C230621B		<b>Manufactured Date:</b>	6/1/2023	
<b>Expiration Date:</b>	6/1/2025						

## Analytical

### Amazon Ingredient Verification (1 ingredient)

Run by MJ on 6/22/2023 2:22:10 PM at Location: TAL

Ingredient 1 Full Name: Bioperine Black Pepper Fruit Extract (95% Piperine)

Test	Short Name	Result	Units	Specification	Methodology
Ingredient 1	Bioperine Black Pepper Fruit Ext...	10.0	mg/1 capsule	10 mg/1 capsule	HPLC Active Ingredient Verification

### Alpha Lipoic Acid

Run by MJ on 6/22/2023 11:51:31 AM at Location: TAL

SOP/Methodology: TM0037

Test	Result	Units	Specification	Status
Alpha Lipoic Acid	53.7	mg/1 capsule	>50 mg/1 capsule	Within Specification

### Berberine

Run by MJ on 6/22/2023 1:08:06 PM at Location: TAL

SOP/Methodology: TM0017 / UPLC-DAD

Test	Result	Units	Specification	Status
Berberine	741.7	mg/1 capsule	>600 mg/1 capsule	Within Specification

Notes: Berberine Tested in Duplicate to confirm overage

### Piperine

Run by MJ on 6/22/2023 2:21:44 PM at Location: TAL

SOP/Methodology: TM0028

Test	Result	Units	Specification	Status
Piperine	13.4	mg/1 capsule	>9.5 mg/1 capsule	Within Specification

### Heavy Metals (As, Cd, Hg and Pb)

Run by SW on 6/29/2023 4:16:12 PM at Location: TAL

SOP/Methodology: USP 233

Test	Result	LOD (Result)	LOQ (Result)	Units	Specification	Status
Arsenic (As)	0.091	0.005	0.014	ppm	<2 ppm	Within Specification
Cadmium (Cd)	0.316	0.005	0.014	ppm	<1 ppm	Within Specification
Lead (Pb)	< LOQ	0.005	0.014	ppm	<2 ppm	Within Specification
Mercury (Hg)	ND	0.005	0.014	ppm	<0.1 ppm	Within Specification

## Microbiological

### Supplement (short USP 2021 and 2022)

Run by AP on 6/27/2023 11:39:19 AM at Location: TAL

Test	Result	Units	Specification	Status	Methodology
Total Aerobic Plate Count	50	CFU/g	<10000 CFU/g	Within Specification	USP 2021
Total Yeast	<100	CFU/g	<1000 CFU/g	Within Specification	USP 2021
Total Mold	<100	CFU/g	<1000 CFU/g	Within Specification	USP 2021
Total Coliform	<10	CFU/g	<10 CFU/g	Within Specification	USP 2021
Escherichia coli	Absent	P/A	Absent in 10g	Within Specification	USP 2022
Salmonella species	Absent	P/A	Absent in 10g	Within Specification	USP 2022
Staphylococcus aureus	Absent	P/A	Absent in 10g	Within Specification	USP 2022

*Shawn Richmond*

Reviewed By: \_\_\_\_\_

Richmond, Shawn - Microbial Director

Panel Name: Supplement (short USP 2021 and 2022)

Approved: 7/26/2023 11:52 AM

Printed: 7/26/2023 11:52 AM  
(UTC-08:00) Pacific Time (US & Canada)

Accession: 4677 Product #: PH613

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Reviewed By: \_\_\_\_\_

Jones, Molliann - Analytical Manager

Panel Name: Amazon Ingredient Verification (1 ingredient)  
Panel Name: Alpha Lipoic Acid  
Panel Name: Berberine  
Panel Name: Piperine  
Panel Name: Heavy Metals (As, Cd, Hg and Pb)

Approved: 7/17/2023 4:20 PM  
Approved: 7/17/2023 4:20 PM  
Approved: 7/17/2023 4:20 PM  
Approved: 7/17/2023 4:20 PM  
Approved: 7/17/2023 4:20 PM

ND = Not Detected | LOD = Limit of Detection | LOQ = Limit of Quantification

Not all methods are ISO17025:2017 accredited

