

CERTIFICATE OF ANALYSIS

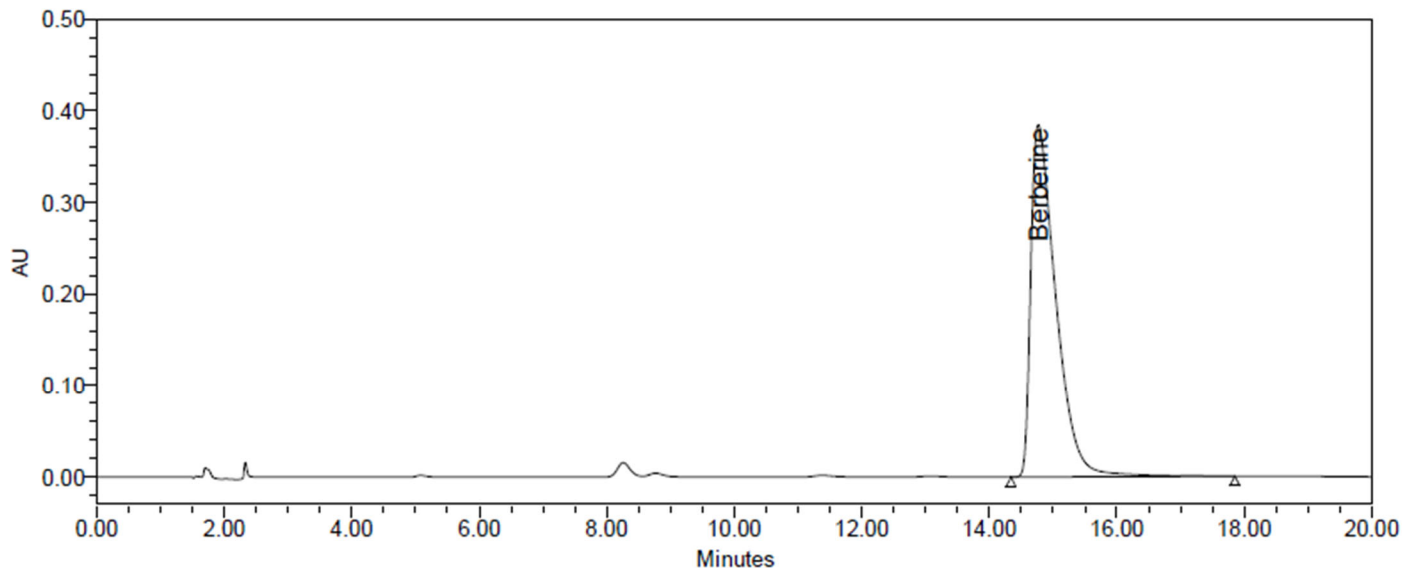


12661 HOOVER STREET GARDEN GROVE, CA 92841 | P. 714-754-4372 | F. 714-668-9972 | WWW.ALKEMIST.COM

Report Issued To: Science Only LLC
2609 E 14TH ST PMB 430
BROOKLYN NY 11235-3915
USA

Sample Name: Berberine capsules
Description: Capsule powder; Tan powder in clear capsules
Lot #: 12496124
AL #: 25084NGT_2
Analysis ID: 257541
Received: 03/25/25

Determination of Berberine Content by HPLC



Ret. Time (min)	Compound Name	Amount (%)	Amount (mg/cap)	Specification	Result
14.8	Berberine HCl	25.158	165.671	≥ 150 mg/capsule	Pass

Chromatographic Conditions:

Method: ATM-815-0234
Column: AP389 Gemini 5μ C18 110A (150 x 4.6 mm)
Temperature: 25°C
Flow Rate: 1 mL/min
Injection Volume: 10 μL
UV Detection: 346 nm
Mobile Phase: Acetonitrile:0.1 M Potassium Phosphate (24:76)
HPLC Instrument: Alliance_4

Sample Preparation:

Composited the contents of 10 capsules. Mixed sample well. Transferred approximately 50 mg of sample into a 50 mL volumetric flask. Added approximately 35 mL MeOH, vortexed 30 seconds and sonicated for 30 minutes at room temperature. Let it cool. Filled to volume with MeOH. Mixed well by inversion. Filtered through 0.45 μm PTFE syringe filter into HPLC vial for analysis.

Report Summary:

Conclusion: This "Berberine capsules" test sample contains 166 mg/capsule Berberine HCl on the as is basis.
Fill weight: 658.517 mg/capsule
OOS Reference: N/A
Notebook Reference: 08425 Berberine

Analysis Date : 03/27/25

Analyzed By: T Tong

Authorized By: Celine Decasiano,
Analytical Chemistry Supervisor

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Sample Name: Berberine capsules
Description: Capsule powder; Tan powder in clear capsules
Lot #: 12496124
AL #: 25084NGT_1
Analysis ID: 258319
Received: 03/25/25

Determination of Bacterial Contaminants by Petrifilm and MDS

Microorganism	Amount (cfu/g)	USP Specification	Result
E. coli	Absent	Absent in 10g	Pass
Aerobic Bacteria	ND	$< 10^4$	Pass
Yeast and Mold	ND	$< 10^3$	Pass
Enterobacteria	ND	$< 10^2$	Pass
Salmonella	Absent	Absent in 25g	Pass

Conditions:

Method: ATM-815-0315, 0316, 0317, 0318, 0319
Instrument: 3M Petrifilm Plate Reader, 3M Molecular Detection System (MDS)

Sample Preparation:

For E.Coli, Aerobic count, Yeast & Mold, and Enterobacteria. Transferred approximately 10g of sample to sterile filter bag with 90 mL of Tryptic Soy Broth. Mixed until homogenous. Diluted 1:10 and 1:100. For each of these four tests, different incubations are performed on petrifilm. For E.Coli, an additional step of incubation with MacConkey broth is performed at 42 C for 24 hours +/- 2 hours, before placing on petrifilm. For Salmonella, transferred 25 g of sample to an enrichment pouch. Massaged pouch enrichment suspension until homogeneous. Incubated at 37 C for 24 hours +/- 2 hours.

Report Summary:

Conclusion: This "Berberine capsules" test sample has no detected aerobic bacteria, no detected yeast and mold, no detected enterobacteria, and no detectable trace of *Salmonella spp.* and *E. coli*.
OOS Reference: N/A
Notes: This matrix has been verified fit-for-purpose using Petrifilm and MDS
Notebook Reference: 09025 Petrifilm, 09025 MDS

Analysis Date: 04/04/25

Analyzed By: R Garcia

Authorized By: Anthony Fontana, Ph.D.
Laboratory Director

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Sample Name: Berberine capsules
Description: Capsule powder; Tan powder in clear capsules
Lot #: 12496124
AL #: 25084NGT_3
Analysis ID: 257871
Received: 03/25/25

Determination of Heavy Metals Content by USP <233>

Element	Amount (µg/g)	USP <561> Limit (µg/g)	Result
Arsenic	0.100	2.0	Pass
Cadmium	0.062	0.5	Pass
Mercury	<0.010	1.0*	Pass
Lead	<0.020	5.0	Pass

Chromatographic Conditions:

Method: ATM-815-0307 (Validated by USP <233> Elemental Impurities – Procedures)
Preparation: Microwave Digestion
Instrument: ICP-MS

Sample Preparation:

Combined the contents of 5 capsules and mixed well. Transferred 500 mg of sample to a glass test tube. Added 4 mL nitric acid and 1 mL hydrochloric acid and shook well. Let sit for 30 minutes. Digested sample using microwave digester. Let cool and transferred to a 50 mL Digtube and filled to volume with water. Mixed well and transferred to test tube for analysis.

Report Summary:

Conclusion: This "Berberine capsules" test sample has 0.100 µg/g arsenic, 0.062 µg/g cadmium, <0.010 µg/g mercury, and <0.020 µg/g lead.
OOS Reference: N/A
Notes: *Methylmercury determination is not necessary when the content for total mercury is less than the 0.2ppm limit for methylmercury.
MassHunter File: 08525 Heavy Metals

Analysis Date: 04/01/25

Analyzed By: C Lopez

Authorized By: Latrece Brown,
Lead Analytical Chemist

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