CERTIFICATE OF ANALYSIS

ALKEMIST LABS

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Report Issued To: Shroombiosis LLC
[redacted]
USA

Sample Name: Shroombiosis
Description: brown powder
Lot#: 2604170
Sample ID#: AL26121095
Test ID: 42821
Received: 09/21/2026

Beta Glucans Quantification in Mushroom by UV/Vis

Analyte	Amount As Is (%)	Specification	Result
Total Glucans	50.651	N/A	N/A
Alpha Glucans	22.218	N/A	N/A
Beta Glucans	28.433	N/A	N/A

Conditions:

Method: LTM-1115-0154

UV Detection: 510 nm

Sample Preparation:

For Total Glucans: Transferred approximately 90 mg of sample to a 15 mL centrifuge tube. Added 2 mL 12 M sulfuric acid. Mixed by vortex and placed all tubes in 30°C water bath for 1 hour, vortexing for 10 seconds every 15 minutes. Added 4 mL of water and vortexed for 10 seconds. Added 6 mL of water and vortexed for 10 seconds. Loosened caps on tubes and placed in a boiling water bath for 5 minutes. Tightened caps and placed back in boiling water bath for 2 hours. Vortexed tubes every 30 minutes for 10 seconds. Let tubes cool and quantitatively transferred contents from the centrifuge tubes to respective 100 mL volumetric flasks. Rinsed tubes with 200 mM sodium acetate buffer. Added 6 mL of 8.0 M sodium hydroxide solution to each flask and filled to volume with 200 mM sodium acetate buffer. Mixed well by inversion. Transferred an aliquot of sample solution to respective microcentrifuge tubes and centrifuged for 5 minutes. Transferred 0.1 mL aliquots to a 15 mL centrifuge tube. For Alpha Glucans: Transferred approximately 100 mg of sample to a 15 mL centrifuge tube. Added 0.2 mL of 80% ethanol and vortexed for 30 seconds. Added 2 mL 1.7 M sodium hydroxide solution to each tube. Placed all tubes in an ice water bath for 15 minutes vortexing every 5 minutes. Added 8 mL 1.2 M sodium acetate buffer containing 5 mM calcium chloride to each tube. Immediately added 0.3 mL of EnzyAlpha and mixed by inversion. Placed all tubes in a 50° C water bath for 30 minutes vortexing intermittently. Let cool to room temperature. Transferred 2 mL of diluted sample to a microcentrifuge tube and centrifuged for 5 minutes. Performed dilution.

Notes:

OOS Reference: N/A

Batch ID: 261019221

Serving Size:1

Note: N/A

Analysis Date:
Report Date: 10/26/2026

Analyzed By: Natalia Strangman

Authorized By: Celine Decasiano, Analytical Production Manager

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