



## ANALYTICAL REPORT

**TO:** Aloha Medicinals  
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**DATE:** July 22, 2009

Sample: <b>Aloha Medicinals Agaricus blazei</b>	Lot Number: <b>ABSI0202908 (2007)</b>
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Analyte	Result	Unit
Agaritine	n.d.	mg / g

n.d. none detected as MS fragmentation pattern or in the PDA retention window at selective wavelength.

Agaritine analysis performed by method adapted from J. J. Speroni R. B. Beelman "High Performance Liquid Chromatographic Determination of Agaritine in Cultivated Mushrooms" as published in J. Food Sci, 45(5),1539-1541, 2006. dried mushrooms were extracted with methanol, evaporated to dryness, and the residue resuspended in 0.005N NaH<sub>2</sub>PO<sub>4</sub>, pH 4.25 and subsequently passed through a C<sub>18</sub> reverse-phase SepPak. A mobile phase of 0.005N NaH<sub>2</sub>PO<sub>4</sub>, pH 4.25, was pumped through a Partisil SCX (25 cm × 4.6 mm i.d.) cation-exchange column at 0.6 ml/min. Agaritine was monitored at 237 nm. Peak identification performed on 10% w/v solution of eluent into an atmospheric pressure chemical interface for solvent removal and particle atomization and then via fused silica line into a mass spectrometer inlet with capillary sheath at 400°C with helium carrier gas, corona voltage at 5KV (2μA).

Dinesh Patel, Ph.D.  
Laboratory Director

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