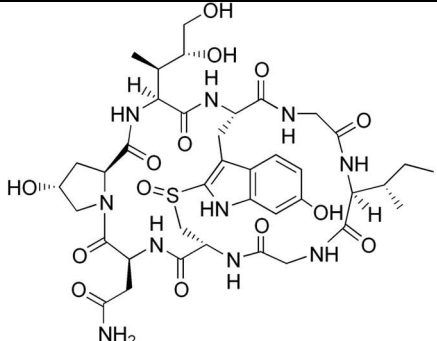
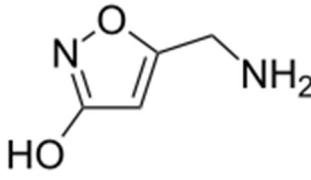
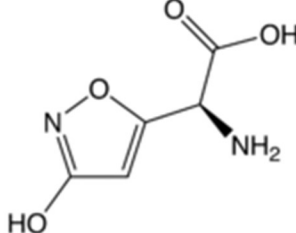


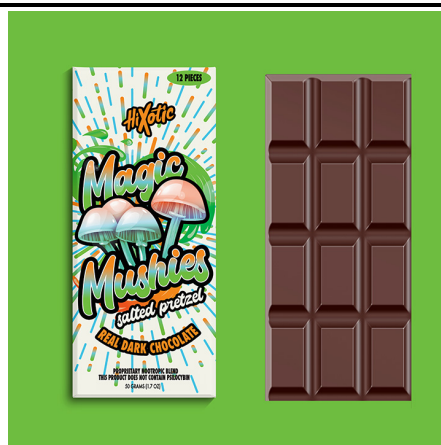


# Certificate of Analysis

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<b>Sample Name</b>	Amanita Chocolate Bar	<b>Client ID</b>	Hixotic
<b>Sample Type</b>	Edible	<b>Analysis Date</b>	7/10/2023
<b>Sample Batch ID</b>	07012025	<b>Instrument ID</b>	Agilent HPLC-DAD
<b>Tryptomics ID</b>	A-056	<b>Assay ID</b>	2 Compound Amanita Panel

<b>A-Amanitin</b>	<b>Muscimol</b>		<b>Ibotenic Acid</b>	
Presence or Absence	Concentration (mg/serving)	Concentration (mg/bar)	Concentration (mg/serving)	Concentration (mg/bar)
NT	0.132	1.32	0.044	0.44
<p><b>About A-Amanitin :</b></p> <p>Alpha amanitin is an extremely toxic metabolite produced by certain mushroom species known as Amanita phalloides. Ingestion of alpha amanitin can cause extreme abdominal discomfort, liver failure and even death due to its ability to inhibit RNA polymerase II activity which prevents protein synthesis throughout the body's cells. As such it has no known uses.</p>	<p><b>About Muscimol:</b></p> <p>Muscimol is an isoxazole compound and a potent agonist of the GABA-A receptors in the brain. It can produce sedative, hypnotic, dissociative, and hallucinogenic effects in humans if taken in large doses. Muscimol is produced through the decarboxylation of Ibotenic Acid through various processes. Its use carries a risk of adverse effects such as hallucinations, confusion, and motor impairment.</p>		<p><b>About Ibotenic Acid:</b></p> <p>Ibotenic acid is an isoxazole compound that acts as a glutamate receptor agonist. It is found in a wide range of mushrooms species from the Amanita genus. It has been used to induce seizures in animals for research purposes due to its ability to stimulate excitatory pathways leading from the hippocampus. In humans, ibotenic acid can cause nausea, vomiting and diarrhea if ingested in large doses.</p>	
				



LOD = Limit of Detection, ND = Not Detected, NT = Not Tested

This certificate of analysis is for research and development purposes only. Please email questions to [cking@tryptomics.com](mailto:cking@tryptomics.com)