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Certificate of Analysis

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Sample Name	Immunity & Allergy Supplament	Client ID	Earth Buddy Pet	
Sample Type	Fruit	Analysis Date	9/20/2023	
Sample Batch ID	#075Blend2P	Instrument ID	Agilent HPLC-DAD	
Tryptomics ID	M-045	Assay ID	4 Compound Cordyceps	

Cordycepin		Adenosine		Tryptophan		Tryptamine	
Weight %	Concentration (mg/g)	Weight %	Concentration (mg/g)	Weight %	Concentration (mg/g)	Weight %	Concentration (mg/g)
0.094	0.943	0.005	0.053	0.005	0.049	LOD	LOD
About Cordycepin: Cordycepin is a nucleoside analog found in <i>C. sinensis</i> that acts as a polyadenylation inhibitor when converted to cordycepin triphosphate, which inhibits ATP-dependent DNA and RNA synthesis. ¹ Cordycepin has a broad spectrum of biological activities, including anti- proliferative, pro-apoptotic, and anti-inflammatory effects. ^{1,2,3}		About Adenosi nucleosid adenine and glycosidic endogenous I four adenosir serve divers smooth mus nervous syste cardia	Adenosine: ne is a purine e composed of ribose linked by a linkage. It is an igand of a family of he receptors, which se roles related to scle tone, central em regulation, and ac function.	About Tryptophan: Tryptophan is an essential amino acid vital in synthesizing serotonin and melatonin in fungi, plants, and animals. It contributes to the formation of indole alkaloids like ajmalicine, psilocybin, strictosidine, and catharanthine. In mammals, tryptophan undergoes several metabolic pathways and significantly influences health aspects like mood, sleep, and immune function.		About Tryptamine: Tryptamine is an indole alkaloid and intermediate in the biosynthesis of serotonin and the phytohormone melatonin in plants. ^{1,2} It increases the levels of the terpenoid indole alkaloids ajmalicine, strictosidine, and catharanthine in cultures of <i>C.</i> <i>roseus</i> . ³ Tryptamine is also a product of tryptophan metabolism in mammals. ⁴	
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LOD = Limit of Detection, ND = Not Detected This certificate of analysis is for research and development purposes only. Please email questions to cking@tryptomics.com