



Certificate of Analysis

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Sample Name	Immune Powder	Client ID	Earth Buddy Pet
Sample Type	Powder	Analysis Date	3/17/2023
Sample Batch ID	20230317	Servings	73.71 mL
Tryptomics ID	G-021	Assay ID	Total Glucans

α-Glucan	(1-3)(1-6)-β-Glucan
Weight %	Weight %
26.0 ± 0.2	14.3 ± 1.0
g/Serving	g/Serving
19.1 ± 0.1	10.6 ± 0.7
<p>About α-Glucan: Alpha-glucans are also commonly found in bacteria, yeasts, plants, and insects. Alpha-glucans differ from beta-glucans because of how the two sugar molecules are linked together to form the polysaccharide. Particularly in the context of medicinal mushroom products, a higher concentration of alpha-glucans indicates the mycelial or fruiting body product is contaminated with glucans coming from the grain or substrate.</p> <p>Examples:</p> <ul style="list-style-type: none"> • dextran, α-1,6-glucan • glycogen, α-1,4- and α-1,6-glucan • pullulan, α-1,4- and α-1,6-glucan 	<p>About (1-3)(1-6)-β-Glucan: (1,3)(1,6)-beta-glucans are a type of beta-linked polysaccharide that is commonly found in medicinal mushrooms. It is known to activate the human immune system, and studies have also suggested that it may have anti-carcinogenic properties. The quantification of this β-glucan is important for the regulatory community as it is used to confirm the identity and purity of medicinal mushroom products.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Cellulose – (1,4)-β-Glucan • Cereal – (1,3)(1,4)-β-Glucan • Fungal – (1,3)(1,6)-β-Glucan

Total Glucans
Weight %
40.3 ± 1.0
g/Serving
29.7 ± 0.7



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