TRYPTOMICS

Certificate of Analysis

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Sample Name	Immune Tincture	**Client ID**	Earth Buddy Pet
Sample Type	Tincture	**Analysis Date**	9/14/2023
Sample Batch ID	05EBP5B-04GT	**Servings**	30 mL
Tryptomics ID	G-043-44	**Assay ID**	Total Glucans

α-Glucan	(1-3)(1-6)-β-Glucan
Weight %	**Weight %**
0.1 ± 0.00	1.5 ± 0.04
g/Serving	**g/Serving**
0.03 ± 0.01	0.4 ± 0.01
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 mushroom products, a higher concentration of alpha-glucans indicates the mycelial or fruiting body product contains glucans from the grain or substrate. Examples: • dextran, α-1,6-glucan • glycogen, α-1,4- and α-1,6-glucan • pullulan, α-1,4- and α-1,6-glucan	**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 mushroom products. Examples: • Cellulose – (1,4)-β-Glucan • Cereal – (1,3)(1,4)-β-Glucan • Fungal – (1,3)(1,6)-β-Glucan

Total Glucans
Weight %
1.6 ± 0.04
g/Serving
0.5 ± 0.01

LOD = Limit of Detection, ND = Not Detected