

**Federal Government-financed Educational Institution of Higher Professional
Education «Vyatka State University» (FGEI HPE «VyatSU»)**

Institute of Chemistry and Ecology

Competence Centre "Environmental Technologies and Systems"

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TEST REPORT

№ 16/GZ from 14.09.2023

Company (customer): IE Semin Alexey Aleksandrovich

Customer's address: 394068, Voronezh.

Name of the test object: *Hericium erinaceus* Pers. mycelium (grown on rice)

Test purpose: quantitative determination of Erinacin A, vitamins B and D, lecithin, amino acids, fatty acids in the sample.

Sample registration number: 16/GZ, Oil+3% extract

Date of the sample's receipt: 24.08.2023

Date of testing: 11.09.2023 – 14.09.2023

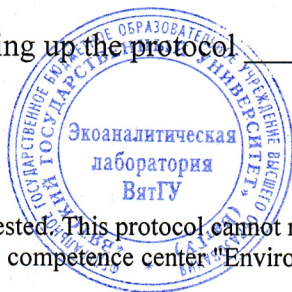
Measurement conditions: temperature – 23°C, humidity – 39%, pressure – 740 mmHg.

No.	Studied parameter	Measurement technique	Measurement data	Error
1	Oleic acid mass fraction, %	Photometric	4,04	0,16
2	Stearic acid mass fraction, %		2,50	0,11
3	Palmitic acid mass fraction, %		0,71	0,05
4	Lauric acid mass fraction, %		4,06	0,18
5	Caprylic acid mass fraction, %		6,83	0,34
6	Capronic acid mass fraction, %		9,27	0,39
7	Dehydroquercitin, %		0,11	0,01
8	Hypoxanthine, %		0,26	0,02
9	Lecithins, %		6,55	0,30
10	Tocopherol (Vitamin E), mg/100 g	UV spectrophotometry; GPM (General Pharmacopoeia Monograph)	0,31	-
11	Phylloquinone (Vitamin K), mg/100 g		0,09	-
12	Ergocalciferol (Vitamin D), mg/100 g		0,44	0,05
13	Thiamine (Vitamin B ₁), mg/100 g		1,49	0,07
14	Pyridoxine (Vitamin B ₆), mg/100 g		1,33	0,07
15	Pantothenic acid (Vitamin B ₅), mg/100 g		0,21	-
16	Cobalamins (Vitamin B ₁₂), mg/100 g		0,27	0,04
17	Alanine, mg/dm ³	High-performance liquid chromatography	0,15	-
18	Phenilalanine, mg/dm ³		3,62	-

19	Leucine, mg/dm ³		14,20	-
20	Valine, mg/dm ³		8,01	-
21	Glycine, mg/dm ³		2,29	-
22	Lysine, mg/dm ³		5,77	-
23	Asparagine, mg/dm ³		2,38	-
24	Histidine, mg/dm ³		3,14	-
25	Tyrosine, mg/dm ³		0,60	-
26	Cysteine, mg/dm ³		6,91	-
27	Tryptophan, mg/dm ³		1,03	-
28	Asparagic acid, mg/dm ³		5,80	-
29	Glutamine, mg/dm ³		0,06	-
30	Glutamic acid, mg/dm ³		2,93	-
31	Threonine, mg/dm ³		13,08	-
32	Serine, mg/dm ³		0,08	-
33	Protein mass fraction, %	Titrimetric, Kjeldahl method	3,18	-
34	Ginsenosides mass fraction, %	High-performance liquid chromatography/ mass-spectrometry	0,17	0,02
35	Erinacin, % (CAS 156101-08-5)		4,34	0,21

Responsible for drawing up the protocol _____

Sazanov A.V.



The results refer to the objects tested. This protocol cannot not be partially reproduced or replicated without the permission of the competence center "Environmental Technologies and Systems"

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