

Veterinary Service Department of Altay Kray
Regional state budgetary institution
“Altay Kray Veterinary Centre on animals’ illnesses prevention and diagnostics”

Test Laboratory
Accreditation certificate No. RA.RU.21PT41,
issued on 10.09.2015, period of validity is unlimited
Address: 160 Shevchenko St., Barnaul.
Tel./fax: 501-197 (registry), 501-198 (accounts), 501-436 (reception),
e-mail (reception): akw1@mail.ru

Head of Test Laboratory
/signature/ V.V. Zubanov

Deputy head on diagnostics
/signature/ L.A. Kuchina

Test report No. 5283 dd. 07.08.2017, Edition 1

When examining the following specimen: Dry peat-humic fertilizer “Fitop-Flora-S”

Applicant: “BIO-BAN”, Limited Liability Company, 12 Pochtoviy Lané, Biysk, Altay region, Russian Federation

Place of sampling: Biysk, Altay region, Russian Federation

Date and time of sampling: 31.07.2017, 00:00

Manufacture: “BIO-BAN”, Limited Liability Company, 12 Pochtoviy Lane, Biysk, Altay region, Russian Federation

Specimen mass: 1 kg

Amount of specimen: 1

Date of arrival: 31.07.2017 11:10

Period of tests performing: 31.07.2017 – 07.08.2017

To correspond the requirements: TU 039200440830869-03

The following result has been obtained:

No.	Defined indices	Measuring unit	Tests results	Error (uncertainty)	Norm	Regulatory documentation for tests methods
Microbiological indices						
1	Anaerobes	-	not detected	-	not permitted	Rules for bacteriological research of feeds approved by MDV MOA USSR 10.06.1975
2	Botulinum toxin	-	not detected	-	not permitted	Rules for bacteriological research of feeds approved by MDV MOA USSR 10.06.1975
3	Salmonella	-	not detected	-	not permitted	Rules for bacteriological research of feeds approved by MDV MOA USSR 10.06.1975
4	Enteropathogenic types of Escherichia coli	-	not detected	-	not permitted	Rules for bacteriological research of feeds approved by MDV MOA USSR 10.06.1975
Safety indices						
5	General toxicity	-	non toxic	-	not permitted	State standard GOST 31674-2012

Note: Trials results are spread only for supplied specimen.

Reprinting of the test report without permission of the test laboratory is forbidden.

Corrections are registered by a separate test report.

Responsible for Test report execution

/signature/

Bondareva T.E.

Veterinary Service Department of Altay Kray
Regional state budgetary institution
“Altay Kray Veterinary Centre on animals’ illnesses prevention and diagnostics”

Test Laboratory
Accreditation certificate No. RA.RU.21PT41,
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e-mail (reception): akw1@mail.ru

Head of Test Laboratory
/signature/ V.V. Zubanov

Deputy head on diagnostics
/signature/ L.A. Kuchina

Test report No. 5282 dd. 07.08.2017, Edition 1

When examining the following specimen: Dry peat-humic fertilizer “Flora-S”
Applicant: “BIO-BAN”, Limited Liability Company, 12 Pochtoviy Lane, Biysk, Altay region, Russian Federation
Place of sampling: Biysk, Altay region, Russian Federation
Date and time of sampling: 31.07.2017, 00:00
Manufacture: “BIO-BAN”, Limited Liability Company, 12 Pochtoviy Lane, Biysk, Altay region, Russian Federation
Specimen mass: 1 kg
Amount of specimen: 1
Date of arrival: 31.07.2017 11:10
Period of tests performing: 31.07.2017 – 07.08.2017
To correspond the requirements: TU 039200440830869-03
The following result has been obtained:

No.	Defined indices	Measuring unit	Tests results	Error (uncertainty)	Norm	Regulatory documentation for tests methods
Microbiological indices						
1	Anaerobes	-	not detected	-	not permitted	Rules for bacteriological research of feeds approved by MDV MOA USSR 10.06.1975
2	Botulinum toxin	-	not detected	-	not permitted	Rules for bacteriological research of feeds approved by MDV MOA USSR 10.06.1975
3	Salmonella	-	not detected	-	not permitted	Rules for bacteriological research of feeds approved by MDV MOA USSR 10.06.1975
4	Enteropathogenic types of Escherichia coli	-	not detected	-	not permitted	Rules for bacteriological research of feeds approved by MDV MOA USSR 10.06.1975
Safety indices						
5	General toxicity	-	non toxic	-	not permitted	State standard GOST 31674-2012

Note: Trials results are spread only for supplied specimen.
Reprinting of the test report without permission of the test laboratory is forbidden.
Corrections are registered by a separate test report.

Responsible for Test report execution

/signature/

Bondareva T.E.

Accredited Laboratory test centre
Legal address: 50 Radischeva St., Barnaul, 656049, Altay region
De facto address: 78 Sovetskaya St., Biysk, 659306, Altay region; tel. (fax): (+7-3854) 33-53-66

Accreditation certificate No. ROSS RU 0001.510265. Period of validity is unlimited

LABORATORY TESTS REPORT

No. 24237 dd. August 03, 2017

Sample (specimen) code: **52451.S(1).17**

Information about Customer (name, address): **"BIO-BAN", LLC, Legal address: 12 Pochtoviy Lane, Biysk, Altay region**

Information about object (name, address): **"BIO-BAN", LLC, fertilizer producing workshop, 12 Pochtoviy Lane, Biysk, Altay region**

Place of sampling (point of sampling): **"BIO-BAN", LLC**

Sample (specimen) name, date of manufacture:
Dry peat-humic fertilizer "FITOP-FLORA-S", service life: 5 years

Manufacturer (firm, enterprise, company): **"BIO-BAN", LLC, 12 Pochtoviy Lane, Biysk, Altay region**

Tests purpose: *on the application*

Extra data: *mass (volume) of the probe for test: 0.5 kg. Mass (volume) of the probe for the control specimen: 0kg. Packing: polyethylene bags.*

Samples (specimens) selection and delivery:

Date and time of sampling: **July 28, 2017, 10:00 a.m.**

Date and time of delivery: **July 28, 2017, 11:35 a.m.**

Name, position: **L.N. Boyarskaya, Deputy director**

Sampling and delivery conditions: **correspond to regulatory documentation**

Regulatory documentation for a sample (specimen):
Not specified

Regulatory documentation for sampling methods: **GOST 17.4.4.02-84 "Soils. Methods of sampling and specimen preparing for chemical, bacteriological and helminthological analysis"**

Regulatory documentation specifying extent of tests and their estimation:
SanPiN 2.1.7.1287-03 "Sanitary-epidemiological requirements for soil quality"

Person responsible for the present test report execution (signature) **A. S. Dyukareva**

Branch of Federal budget institution of health (FBIH) “Centre of hygiene and epidemiology in the Altay region in Biysk and districts: Biyskiy, Eltsovskiy, Zonalniy, Krasnogorskiy, Soltonskiy and Tselinniy”	Page: 1
	Page: 1
Laboratory test report	Edition: 5
F 02-69	Date of introduction: Approved by order No. 108-a dd. 02.12.2015

Parasitological Analysis

Sample (specimen) name: Dry peat-humic fertilizer “FITOP-FLORA-S”

Sample (specimen) code: 52451.S(1).17

Place of tests performing: 78 Sovetskaya St., Biysk, 659306, Altay region,

Date and time of specimen delivery to the laboratory: 28.07.17, 12:05 a.m.

Date of tests performing: tests started on 28.07.17, finished on 01.08.17

Tests conditions (specify in case of deviations from requirements stated):

correspond to the requirements set

Additional information: -

No.	Defined indices	Measuring unit	Tests results	Hygienic norm	Regulatory documentation for tests methods
1	2	3	4	5	6
1	Viable eggs and maggots of helminths	unit/kg	not detected	not permitted	MUK 4.2.2661-10
2	Viable eggs of toxocara	unit/kg	not detected	not permitted	MUK 4.2.2661-10
3	Viable cysts of pathogenic intestinal protozoa	unit/kg	not detected	not permitted	MUK 4.2.2661-10

Head (deputy Head) of Laboratory test centre:

(signature)

L.I. Kokovina

Name, initials

(Seal: Branch of Federal budget institution of health (FBIH)

“Centre of hygiene and epidemiology in the Altay region in Biysk and districts: Biyskiy, Eltsovskiy, Zonalniy, Krasnogorskiy, Soltonskiy and Tselinniy”)

Accredited Laboratory test centre
Legal address: 50 Radischeva St., Barnaul, 656049, Altay region
De facto address: 78 Sovetskaya St., Biysk, 659306, Altay region; tel. (fax): (+7-3854) 33-53-66

Accreditation certificate No. ROSS RU 0001.510265. Period of validity is unlimited

LABORATORY TESTS REPORT

No. 24236 dd. August 03, 2017

Sample (specimen) code: **52450.C(1).17**

Information about Customer (name, address): **"BIO-BAN", LLC, Legal address: 12 Pochtoviy Lane, Biysk, Altay region**

Information about object (name, address): **"BIO-BAN", LLC, fertilizer producing workshop, 12 Pochtoviy Lane, Biysk, Altay region**

Place of sampling (point of sampling): **"BIO-BAN", LLC**

Sample (specimen) name, date of manufacture:
Dry peat-humic fertilizer "FLORA-S", service life: 5 years

Manufacturer (firm, enterprise, company): **"BIO-BAN", LLC, 12 Pochtoviy Lane, Biysk, Altay region**

Tests purpose: **on the application**

Extra data: **mass (volume) of the probe for test: 0.5 kg. Mass (volume) of the probe for the control specimen: 0kg. Packing: polyethylene bags.**

Samples (specimens) selection and delivery:

Date and time of sampling: **July 28, 2017, 10:00 a.m.**

Date and time of delivery: **July 28, 2017, 11:35 a.m.**

Name, position: **L.N. Boyarskaya, Deputy director**

Sampling and delivery conditions: **correspond to regulatory documentation**

Regulatory documentation for a sample (specimen):
Not specified

Regulatory documentation for sampling methods: **GOST 17.4.4.02-84 "Soils. Methods of sampling and specimen preparing for chemical, bacteriological and helminthological analysis"**

Regulatory documentation specifying extent of tests and their estimation:
SanPiN 2.1.7.1287-03 "Sanitary-epidemiological requirements for soil quality"

Person responsible for the present test report execution (signature) **A. S. Dyukareva**

Branch of Federal budget institution of health (FBIH) “Centre of hygiene and epidemiology in the Altay region in Biysk and districts: Biyskiy, Eltsovskiy, Zonalniy, Krasnogorskiy, Soltonskiy and Tselinniy”	Page: 1
	Page: 1
Laboratory test report	Edition: 5
F 02-69	Date of introduction: Approved by order No. 108-a dd. 02.12.2015

Parasitological Analysis

Sample (specimen) name: Dry peat-humic fertilizer “FLORA-S”

Sample (specimen) code: 52450.S(1).17

Place of tests performing: 78 Sovetskaya St., Biysk, 659306, Altay region,

Date and time of specimen delivery to the laboratory: 28.07.17, 12:05 a.m.

Date of tests performing: tests started on 28.07.17, finished on 01.08.17

Tests conditions (specify in case of deviations from requirements stated):

correspond to the requirements set

Additional information: -

No.	Defined indices	Measuring unit	Tests results	Hygienic norm	Regulatory documentation for tests methods
1	2	3	4	5	6
1	Viable eggs and maggots of helminths	unit/kg	not detected	not permitted	MUK 4.2.2661-10
2	Viable eggs of toxocara	unit/kg	not detected	not permitted	MUK 4.2.2661-10
3	Viable cysts of pathogenic intestinal protozoa	unit/kg	not detected	not permitted	MUK 4.2.2661-10

Head (deputy Head) of Laboratory test centre:

(signature)

L.I. Kokovina
Name, initials

(Seal: Branch of Federal budget institution of health (FBIH)

“Centre of hygiene and epidemiology in the Altay region in Biysk and districts: Biyskiy, Eltsovskiy, Zonalniy, Krasnogorskiy, Soltonskiy and Tselinniy”)

**Federal government budgetary institution
Agrochemical service station "Biyskaya"
Test laboratory**

Address: 39 Lenin St., village of Zonalnoye, Zonalny district, 659400, Altai Region, Russia
tel./fax: (+7-385-30)22-0-75
Accreditation certificate No. RA.RU.21AB99
Date of registration: July 07, 2015

TEST REPORT No. 104 p
dd. August 10, 2014

1. Product name: Dry peat-humic fertilizer "FITOP-FLORA-S"
2. Origin: Russian Federation
3. Applicant: "BIO-BAN", LLC, 12 Pochtoviy Lane, Biysk, Altay Territory
4. Manufacturer: "BIO-BAN", LLC, 12 Pochtoviy Lane, Biysk, Altay Territory
5. Accompanying documents: Assignment No. 15 dd. 02.08.2017
6. Sample selection made by: the Applicant
7. Specimen mass: 0.5 kg
4. Date of specimen receipt: August 02, 2017
5. Products regulatory documents: Technical specifications TU 0392-004-40830869-03
6. Test conditions: relative humidity: 67%; temperature: 24°C
7. Test results:

Name of analyzed index (unit measure)	Permissible level according to regulatory document	Tests results	Analysis inaccuracy	Regulatory documents for test method	Measuring means
Cuprum, mg/kg	Not more than 55	5.0	±1.8	Methodological instructive regulations (MU) for heavy metals detection in the soils of agricultural lands and products of crop production, M., ZINAO, 1989	Analyzer "Spectr-5"
Zinc, mg/kg	Not more than 100	12.7	±4.4		
Plumbum, mg/kg	Not more than 30	6.2	±2.2		
Cadmium, mg/kg	Not more than 0.6	0.13	±0.05		
Hydrargyrum, mg/kg	Not more than 2.1	0.011	±0.004	Methodical recommendations MR No. 4096-86	Hydrargyrum Analyzer "Yuliya-5K"
Arsenic, mg/kg	Not more than 2.0	0.18	±0.05	Methodical recommendations to determine Arsenic in soils using photometric method M., 1993	Analyzer of "Yuliya-5K" type
Radionuclides, Bk/kg: Caesium-137 Strontium-90	Not more than 600 Not more than 100	5.9 4.2	±3.3 ±1.9	Methodological instructive regulations MUK 2.6.1.1194-2003	Spectrometer complex "Progress"
Mass fraction of nitrate nitrogen, mg/100g	Not less than 4	10.2	±1.1	State Standard GOST 27894.4-88	Liquid analyzer "Expert-001"
Mass fraction of mobile phosphorus (P2O5), mg/100g	Not less than 52	66	±14	State Standard GOST 27894.5-88	Electrical photo calorimeter KFK-2
Mass fraction of mobile potassium (K2O), mg/100g	Not less than 4	14	±4	State Standard GOST 27894.6-88	Automatic fire photometer FPA-2-01

Note:

Test results refer only to the specimen subject to the tests. The present test report can't be copied without permission of the Test laboratory. Corrections are registered officially by means of a separate test report.

Head of Test laboratory (signature) T.V. Zagorodnyaya
Test have been performed by (signature) T.A. Popova
(signature) N.I. Dargel

Seal: Ministry of Agriculture of the Russian Federation, Department of crop production, crop chemicals and plant protection. Federal government budgetary institution - Agrochemical service station "Biyskaya".

**Federal government budgetary institution
Agrochemical service station "Biyskaya"
Test laboratory**

Address: 39 Lenin St., village of Zonalnoye, Zonalny district, 659400, Altai Region, Russia
tel./fax: (+7-385-30)22-0-75
Accreditation certificate No. RA.RU.21AB99
Date of registration: July 07, 2015

TEST REPORT No. 103 p
dd. August 10, 2014

1. Product name: Dry peat-humic fertilizer "FLORA-S"
2. Origin: Russian Federation
3. Applicant: "BIO-BAN", LLC, 12 Pochtoviy Lane, Biysk, Altay Territory
4. Manufacturer: "BIO-BAN", LLC, 12 Pochtoviy Lane, Biysk, Altay Territory
5. Accompanying documents: Assignment No. 15 dd. 02.08.2017
6. Sample selection made by: the Applicant
7. Specimen mass: 0.5 kg
4. Date of specimen receipt: August 02, 2017
5. Products regulatory documents: Technical specifications TU 0392-004-40830869-03
6. Test conditions: relative humidity: 67%; temperature: 24°C
7. Test results:

Name of analyzed index (unit measure)	Permissible level according to regulatory document	Tests results	Analysis inaccuracy	Regulatory documents for test method	Measuring means
Cuprum, mg/kg	Not more than 55	7.4	±2.6	Methodological instructive regulations (MU) for heavy metals detection in the soils of agricultural lands and products of crop production, M., ZINAO, 1989	Analyzer "Spectr-5"
Zinc, mg/kg	Not more than 100	22.5	±7.9		
Plumbum, mg/kg	Not more than 30	6.0	±2.1		
Cadmium, mg/kg	Not more than 0.6	0.25	±0.09		
Hydrargyrum, mg/kg	Not more than 2.1	0.014	±0.005	Methodical recommendations MR No. 4096-86	Hydrargyrum Analyzer "Yuliya-5K"
Arsenic, mg/kg	Not more than 2.0	0.20	±0.06	Methodical recommendations to determine Arsenic in soils using photometric method M., 1993	Analyzer of "Yuliya-5K" type
Radionuclides, Bk/kg: Caesium-137 Strontium-90	Not more than 600 Not more than 100	5.4 4.6	±3.2 ±2.1	Methodological instructive regulations MUK 2.6.1.1194-2003	Spectrometer complex "Progress"
Mass fraction of nitrate nitrogen, mg/100g	Not less than 4	21.9	±11	State Standard GOST 27894.4-88	Liquid analyzer "Expert-001"
Mass fraction of mobile phosphorus (P2O5), mg/100g	Not less than 52	70	±15	State Standard GOST 27894.5-88	Electrical photo calorimeter KFK-2
Mass fraction of mobile potassium (K2O), mg/100g	Not less than 4	15	±4	State Standard GOST 27894.6-88	Automatic fire photometer FPA-2-01

Note:

Test results refer only to the specimen subject to the tests. The present test report can't be copied without permission of the Test laboratory. Corrections are registered officially by means of a separate test report.

Head of Test laboratory (signature) T.V. Zagorodnyaya

Test have been performed by (signature) T.A. Popova
(signature) N.I. Dargel

Seal: Ministry of Agriculture of the Russian Federation, Department of crop production, crop chemicals and plant protection. Federal government budgetary institution - Agrochemical service station "Biyskaya".

**Federal government budgetary institution
Agrochemical service station "Biyskaya"
Test laboratory**

Address: 39 Lenin St., village of Zonalnoye, Zonalny district, 659400, Altai Region, Russia
tel./fax: (+7-385-30)22-0-75

Accreditation certificate No. RA RU.21AB99

Date of registration: July 07, 2015

TEST REPORT No. 106 p
dd. August 10, 2017

1. Product name: peat-humic fertilizer "FITOP-FLORA-S"
2. Origin: Russian Federation
3. Applicant: "BIO-BAN", LLC, 12 Pochtoviy Lane, Biysk, Altay Territory
4. Manufacturer: "BIO-BAN", LLC, 12 Pochtoviy Lane, Biysk, Altay Territory
5. Accompanying documents: Assignment No. 15 dd. 02.08.2017
6. Sample selection made by: the Applicant
7. Specimen mass: 1.5 l
8. Date of specimen receipt: August 02, 2017
9. Products regulatory documents: Technical specifications TU 0392-003-40830869-2003
10. Test conditions: relative humidity: 67%; temperature: 24°C
11. Test results:

Name of analyzed index (unit measure)	Permissible level according to regulatory document	Tests results	Analysis inaccuracy	Regulatory documents for test method	Measuring means
Mass concentration of humic acids, g/dm ³	-	23.6	-	TU 214 RSFSR 9-204-88	Photoelectric photometer "KFK-2"

Note:

Test results refer only to the specimen subject to the tests. The present test report can't be copied without permission of the Test laboratory. Corrections are registered officially by means of a separate test report.

Head of Test laboratory (signature) T.V. Zagorodnyaya

Test have been performed by (signature) N.I. Dargel

Seal: Ministry of Agriculture of the Russian Federation, Department of crop production, crop chemicals and plant protection. Federal government budgetary institution - Agrochemical service station "Biyskaya".

**Federal government budgetary institution
Agrochemical service station "Biyskaya"
Test laboratory**

Address: 39 Lenin St., village of Zonalnoye, Zonalny district, 659400, Altai Region, Russia
tel./fax: (+7-385-30)22-0-75
Accreditation certificate No. RA RU.21AB99
Date of registration: July 07, 2015

TEST REPORT No. 105 p
dd. August 10, 2017

1. Product name: peat-humic fertilizer "FLORA-S"
2. Origin: Russian Federation
3. Applicant: "BIO-BAN", LLC, 12 Pochtoviy Lane, Biysk, Altay Territory
4. Manufacturer: "BIO-BAN", LLC, 12 Pochtoviy Lane, Biysk, Altay Territory
5. Accompanying documents: Assignment No. 15 dd. 02.08.2017
6. Sample selection made by: the Applicant
7. Specimen mass: 1.5 l
8. Date of specimen receipt: August 02, 2017
9. Products regulatory documents: Technical specifications TU 0392-003-40830869-2003
10. Test conditions: relative humidity: 67%; temperature: 24°C
11. Test results:

Name of analyzed index (unit measure)	Permissible level according to regulatory document	Tests results	Analysis inaccuracy	Regulatory documents for test method	Measuring means
Mass concentration of humic acids, g/dm ³	-	18	-	TU 214 RSFSR 9-204-88	Photoelectric photometer "KFK-2"

Note:

Test results refer only to the specimen subject to the tests. The present test report can't be copied without permission of the Test laboratory. Corrections are registered officially by means of a separate test report.

Head of Test laboratory (signature) T.V. Zagorodnyaya

Test have been performed by (signature) N.I. Dargel

Seal: Ministry of Agriculture of the Russian Federation, Department of crop production, crop chemicals and plant protection. Federal government budgetary institution - Agrochemical service station "Biyskaya".