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22.05.2018 -T-261

TEST REPORT No. 1551-23.04-18

1.**Customer**: Biodinamika, UAB
Address: Vytenio g. 46, LT-03229 Vilnius
2. Information about samples from customer:
Object: Organic fertilizer -BIOGEL
Date of sampling: 23.04.2018

Sample No.	Place of sampling	Kind of sample
1	Organic fertilizer -BIOGEL	organic fertilizer

Description of samples:

Sample No.	Container	Amount of sample
1	plastic container	1kg

Received in the laboratory: 23.04.2018

TEST RESULTS

Start/end date of testing (dd/mm/yy): 23.04.2018/22.05.2018

Parameter	Unit of measurement	Result	Uncertainty [x]	Test method
pH (KCl)	pH units	8.47	0.17	LVS EN 10390:2006
pH (H_2O)	pH units	9.38	0.19	LVS EN 13037:2012
Conductivity (at 25°C)	mS/cm	4.42	0.18	LVS ISO 13038:2012[◊]
Organic matter content	%	47.1	2.33	LVS EN 13039:2012
Total nitrogen, (N)	%	1.71	0.12	LVS EN 13654-1:2004
Total phosphorus (P_2O_5)	%	0.674	0.052	LVS 398:2002
Total potassium (K_2O)	%	6.32	0.57	LVS ISO 11466:1995 LVS ISO 9964-3:2000
Moisture	%	80.7	4.0	LVS EN 13040:2008
Dry matter	%	19.3	1.0	LVS EN 13040:2008
Mercury, Hg	mg/kg	<0.2	-	LVS 346:2005
Cadmium, Cd	mg/kg	<0.17	-	LVS ISO 11047:1998 A
Arsenic, As	mg/kg	<0.2	-	LVS ISO 11466:1995 LVS EN ISO 15586:2003
Nickel, Ni	mg/kg	11.1	1.3	LVS ISO 11047:1998 A
Lead, Pb	mg/kg	<2.3	-	LVS ISO 11047:1998 A
Copper, Cu	mg/kg	11.0	1.1	LVS ISO 11047:1998 A
Zinc, Zn	mg/kg	89.4	8.9	LVS ISO 11047:1998 A
Chromium, Cr	mg/kg	14.5	1.6	LVS ISO 11047:1998 A
Enterococaceae	CFU/g	5E4	-	LVS EN 15788:2010
Echerichia coli	CFU/g	<10	-	LVS ISO 16649-2:2007
Humic substances	%	8.70	-	T-261-33:2014 [¤]
Humic acids	%	8.60	-	T-261-33:2014 p.3.2 [¤]

Calcium, Ca	%	3.1	0.3	LVS ISO 11466:1995 LVS EN ISO 7980:2000
Magnesium, Mg	%	0.69	0.06	LVS ISO 11466:1995 LVS EN ISO 7980:2000
Sodium, Na	%	0.03	-	LVS EN 13652:2003 LVS EN ISO 14911:2000
Iron, Fe	mg/kg	1894	189	LVS ISO 11466:1995 Stand.Meth.3111B:2011
Molybdenum, Mo	mg/kg	5.63	1.18	LVS ISO 11466:1995 LVS EN ISO 15586:2003
Selenium, Se	mg/kg	<0.4	-	LVS ISO 11466:1995 LVS EN ISO 15586:2003
Salmonella spp.	CFU/25g	not detected	--	LVS EN ISO 6579-1:2017 ¤
Clostridia	CFU/g	not detected	-	Europ. Pharm. Meth. p.2.6.13:2010 ¤
Total count of aerobic microorganisms	CFU/g	4E8	-	Europ. Pharm. Meth. p.2.6.12:2010
Fulvic acids	%	0.1	-	T-261-33:2014 ¤
Cobalt, Co	mg/kg	<1.3	-	LVS ISO 11047:1998 A
Manganese, Mn	mg/kg	229	25	LVS ISO 11047:1998 A
Total phosphorus	%	0.30	0.03	LVS 398:2002
Potassium, K	%	5.23	0.41	LVS ISO 11466:1995 LVS ISO 9964-3:2000
Phosphate phosphorus, P/P_2O_5	%	0.135	-	LVS EN ISO 15681-1:2005 LVS EN 13652:2003 ◊
Nitrate nitrogen N/NO_3	%	0.003	-	LVS EN ISO 13395:1996 LVS EN 13652:2003 ◊
Ammonium nitrogen, N/NH_4	%	0.078	-	LVS EN 13652:2003 LVS EN ISO 11732:2005
Chromium, Cr^{6+}	mg/kg	<1.25	-	LVS ISO 11083:1994
Boron, B	%	0.046	-	LVS EN 13652:2003; LVS ISO 9390:1990¤

Characteristic concentrations are given on a perfectly dry mass of the sample

The sample density for the determination of conductivity (method LVS EN 13038: 2012) is 1.18 g / cm^3

[x] given uncertainty of the measurement is the expanded uncertainty- calculated, using covering coefficient 2, which ensure 95% level of confidence.

Results under the method detection limit (MDL) are given with the symbol <. The number after the symbol is equal to the MDL.

* The result is between the MDL and the limit of quantitation (LQ). The uncertainty in this interval can reach 50%.

¤ test method is outside the field of laboratory accreditation.

◊- test method is in the elastic scope of laboratory accreditation.

Test results relate only to the tested samples!

Sampling is carried out by the customer.

The laboratory is not liable for the data, given by the customer.

Laboratory Supervisor Deputy: N.Gorbunova

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