

**Laboratory "Vides audits" Ltd.**

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-T-261

26.02.2018

TEST REPORT No. 581-14.02-18**1. Customer:** Good heat, SIA**Address:** Ruses iela 5-61, Rīga, Latvija, LV-1029**2. Information about samples from customer:****Object:** Biochar**Date of sampling:** 14.02.2018

Sample No.	Place of sampling	Kind of sample
1	Biochar	charcoal

Description of samples:

Sample No.	Container	Amount of sample
1	Paper bag	2kg

Received in the laboratory: 14.02.2018, 12:00**TEST RESULTS**

Start/end date of testing (dd/mm/yy): 14.02.2018/26.02.2018

Parameter	Unit of measurement	Result	Uncertainty ^x	Test method
pH, (KCl)	pH units	7.09	0.14	LVS EN 10390:2006
Total nitrogen (N)	mg/kg	569	40	LVS EN 13654-1:2004
Total phosphorus (P2O5)	mg/kg	1000	100	LVS 398:2002
Total potassium (K2O)	mg/kg	1830	160	LVS ISO 11466:1995 LVS ISO 9964-3:2000
Moisture	%	5.6	0.3	LVS EN 13040:2008
Dry matter	%	94.4	4.7	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	<1.3	-	LVS ISO 11047:1998 A
Lead, Pb	mg/kg	<2.3	-	LVS ISO 11047:1998 A
Copper, Cu	mg/kg	1.24	0.12	LVS ISO 11047:1998 A
Zinc, Zn	mg/kg	15.3	1.5	LVS ISO 11047:1998 A
Chromium, Cr	mg/kg	<1	-	LVS ISO 11047:1998 A
PAHs	mg/kg	0.104	0.012	US EPA Meth. 8100:1986
Calcium, Ca	mg/kg	3890	350	LVS ISO 11466:1995 LVS EN ISO 7980:2000
Magnesium, Mg	mg/kg	440	40	LVS ISO 11466:1995 LVS EN ISO 7980:2000
Ash	%	1.6	0.1	ISO 1171 ^{oo}
Volatiles	%	16.7	0.2	ISO 562 ^{oo}
Fixed carbon	%	81.7	0.2	DIN 51749 ^{oo}

Parameters concentrations are given on a perfectly dry mass of the sample.

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%.

°° the test method is outside of the field of accreditation, tested by Latvian State Institute of Wood Chemistry Forest Products Testing Laboratory

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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