



REPORT ON CHEMICAL ANALYSES RESULTS
- FERTILIZERS AND ENHANCERS -

No:12-3-942/13.
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Report

with chemical analyses results
COMPOST
(from horse manure)

Analytical number: 3132539

Table 1.

Accepted: 02. 12. 2013.

Finished: 07. 01. 2014.

According to your demand we made a chemical analysis of submitted samples of compost made from horse manure.

By visual examination of the sample we sorted the sample into the organic materials of brown color, a smell on humified organic matter. When mixed with water we found no additional chemical reactions.

According to chemical analyses results conclusion is that fertilizer is of mild alkaline reaction (pH=7,4) which is characteristic for this type of organic fertilizers.

The water content in the analyzed fertilizers was 67.32%, which means that the fertilizer contains 32.68% of dry matter (D.M.).

Of the total dry matter, 78.99% is organic matter and 45.61% organic C. The compost is well stocked with total nitrogen, poorly equipped with phosphorus and well stocked with potassium (nitrogen = 2.277% N, phosphorus = 0.168% P₂O₅, potassium = 1.163% K₂O).

According to the Regulation on the protection of agricultural land against pollution (National Newspaper No.32/10) the analyzed compost contains much lower amounts of heavy metals than the maximum permissible concentration (MPC).

On the basis of the aforesaid, analyzed organic fertilizer can find its application in agricultural production such as:

- High-quality organic fertilizer applicable for raising the level of organic matter, nutrients and micro biotic activity in the soil,

- Raw material for the production of various types of substrate adapted for cultivation of plants indoors and outdoors, as well as for growing potted plants.

Table 1. Results of chemical analysis of humus

No.	TIPE OF CHEMICAL ANALISES	Unit	Analytic Number
			3132539
1	Dry matter (105°C)	%	32,68
2	H ₂ O	%	67,32
3	Annealed rest (550°C)	%	18,45
4	Organic matter	%	78,99
5	Carbon (C)	%	45,61
6	pH in H ₂ O	–	7,40
7	E.C. (1:2 vol.)	mS/cm	0,710
8	N in natural sample	%	1,437
9	N total in DM	%	3,06
10	N other forms (105°C)	%	2,782
11	Total P ₂ O ₅	%	1,39
12	Total K ₂ O	%	2,41
13	Zn – total in DM	mg/kg	61,22
14	Cu – total in DM	mg/kg	21,34
15	Cd – total in DM	mg/kg	0,378
16	Pb – total in DM	mg/kg	6,12
17	Ni – total in DM	mg/kg	7,33
18	Cr – total in DM	mg/kg	4,72
19	Hg – total in DM	mg/kg	<0,01

End of report !

Responsible for analyses:
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