

Testing laboratory: Bonalytic GmbH, Gierlichsstr. 6, D-53840 Troisdorf



Accredited testing laboratory by DAkkS according to DIN EN ISO/IEC 17025.

Accreditation applies to test methods listed in certificate.

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Sampler:	client	Test Report Number:	191104-067-NW-1
Sample Type:	HHW	Issued by:	Annette Schenk
Sampling Location:	TO	Position:	BTA
Sampling Date:	21.10.2019	Sample Receipt	04.11.2019
Examination Date	04.11. - 19.11.2019	Issue Date:	19.11.2019

Based on:	DM	DM	FM	FM	Test method
			kg/t	%	
DM *			977	97,73	DIN EN 12880 (S 2a) (2001-02)
oDM *			839	83,91	DIN EN 12879 (S 3a) (2001-02)
	kg/t	%	kg/t	%	
Total-N *	27,3	2,73	26,7	2,671	[1]
NH ₄ ⁺ -N	1,63	0,16	1,59	0,159	[2]
P *	2,86	0,29	2,80	0,280	DIN EN ISO 11885 (E 22) (2009-09)
P ₂ O ₅	6,55	0,66	6,40	0,640	calculated
K *	9,24	0,92	9,03	0,903	DIN EN ISO 11885 (E 22) (2009-09)
K ₂ O	11,1	1,11	10,9	1,088	calculated
Mg *	1,34	0,134	1,31	0,131	DIN EN ISO 11885 (E 22) (2009-09)
MgO	2,22	0,222	2,17	0,217	calculated
Ca *	24,8	2,48	24,2	2,424	DIN EN ISO 11885 (E 22) (2009-09)
CaO	34,7	3,47	33,9	3,391	calculated
S *	2,22	0,222	2,17	0,217	DIN EN ISO 11885 (E 22) (2009-09)
	g/t	%	g/t	%	
B *	8,30	0,00083	8,11	0,000811	DIN EN ISO 11885 (E 22) (2009-09)
Cu *	43,3	0,0043	42,3	0,004232	DIN EN ISO 11885 (E 22) (2009-09)
Co *	0,39	0,000039	0,39	0,000039	DIN EN ISO 11885 (E 22) (2009-09)
Mn *	101	0,0101	98,7	0,00987	DIN EN ISO 11885 (E 22) (2009-09)
Zn *	88,1	0,0088	86,1	0,00861	DIN EN ISO 11885 (E 22) (2009-09)

Comment:

Data are property of Bonalytic GmbH but may be disclosed to third parties of Schaumann BioEnergy Consult

Values marked with '<' represent the quantification limit of the particular element.

Note: All comments and test results relate only to the sample as received.

Legend:

DM = Dry matter, Total-N = Total nitrogen, NH₄⁺-N = Ammonium nitrogen, P = Phosphorus, P₂O₅ = Phosphorus pentoxide, K = Potassium, K₂O = Potassium oxide, Mg = Magnesium, MgO = Magnesium oxide, Ca = Calcium, CaO = Calcium oxide, S = Sulfur, B = Boron, Cu = Copper, Co = Cobalt, Mn = Manganese, Zn = Zinc, n.s. = not specified, [1] = VDLUFA Methodenbuch, Band I, Kap. A2, 4. Auflage 1991, [2] = VDLUFA-Methodenbuch Band II, Kapitel 3.2.6 (4. Auflage 1995 mit 3. Ergänzungslieferung 2007, VDLUFA-Verlag, Darmstadt), * = accredited test method

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