

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:	191104-066-NW-1
Sample Type:	CM	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 *			943	94,32	DIN EN 12880 (S 2a) (2001-02)
oDM *			732	73,15	DIN EN 12879 (S 3a) (2001-02)
	kg/t	%	kg/t	%	
Total-N *	26,7	2,67	25,2	2,519	[1]
NH ₄ ⁺ -N	0,17	0,02	0,16	0,016	[2]
P *	5,08	0,51	4,79	0,479	DIN EN ISO 11885 (E 22) (2009-09)
P ₂ O ₅	11,6	1,16	11,0	1,098	calculated
K *	54,7	5,47	51,6	5,159	DIN EN ISO 11885 (E 22) (2009-09)
K ₂ O	65,9	6,59	62,2	6,217	calculated
Mg *	6,42	0,642	6,06	0,606	DIN EN ISO 11885 (E 22) (2009-09)
MgO	10,6	1,064	10,0	1,004	calculated
Ca *	25,6	2,56	24,1	2,414	DIN EN ISO 11885 (E 22) (2009-09)
CaO	35,8	3,58	33,8	3,378	calculated
S *	5,92	0,592	5,58	0,558	DIN EN ISO 11885 (E 22) (2009-09)
	g/t	%	g/t	%	
B *	41,4	0,00414	39,0	0,003905	DIN EN ISO 11885 (E 22) (2009-09)
Cu *	53,3	0,0053	50,3	0,005027	DIN EN ISO 11885 (E 22) (2009-09)
Co *	0,76	0,000076	0,71	0,000071	DIN EN ISO 11885 (E 22) (2009-09)
Mn *	205	0,0205	193	0,01933	DIN EN ISO 11885 (E 22) (2009-09)
Zn *	186	0,0186	175	0,01754	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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