

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:	191104-064-NW-1
Sample Type:	CGP	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 *			965	96,50	DIN EN 12880 (S 2a) (2001-02)
oDM *			901	90,15	DIN EN 12879 (S 3a) (2001-02)
	kg/t	%	kg/t	%	
Total-N *	26,6	2,66	25,7	2,571	[1]
NH ₄ ⁺ -N	0,16	0,02	0,15	0,015	[2]
P *	1,72	0,17	1,66	0,166	DIN EN ISO 11885 (E 22) (2009-09)
P ₂ O ₅	3,94	0,39	3,80	0,380	calculated
K *	15,3	1,53	14,8	1,476	DIN EN ISO 11885 (E 22) (2009-09)
K ₂ O	18,4	1,84	17,8	1,779	calculated
Mg *	1,66	0,166	1,60	0,160	DIN EN ISO 11885 (E 22) (2009-09)
MgO	2,75	0,275	2,66	0,266	calculated
Ca *	12,7	1,27	12,3	1,225	DIN EN ISO 11885 (E 22) (2009-09)
CaO	17,8	1,78	17,1	1,714	calculated
S *	1,24	0,124	1,20	0,120	DIN EN ISO 11885 (E 22) (2009-09)
	g/t	%	g/t	%	
B *	22,6	0,00226	21,8	0,002181	DIN EN ISO 11885 (E 22) (2009-09)
Cu *	8,62	0,0009	8,32	0,000832	DIN EN ISO 11885 (E 22) (2009-09)
Co *	<0,3	<0,00003	<0,29	<0,000029	DIN EN ISO 11885 (E 22) (2009-09)
Mn *	19,3	0,0019	18,6	0,00186	DIN EN ISO 11885 (E 22) (2009-09)
Zn *	20,6	0,0021	19,9	0,00199	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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