

REPORT: FOLIAR ANALYSIS

PT0901.REV01

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Agrarprojekt Code:	UEB-180221	Test Report No.	275
Reception date:	02-18-21	Report date:	02-03-21

CLIENT DATA

Customer:	Carlos Taco Taco		
Requested by:	Carlos Taco Taco		
Location:	Guaranda	Telephone:	0994030091

ANALYSIS PROCESS**Method used for sample preparation ("Dry Incineration Method"):**

Leaf drying → Shredding ("40 mesh") → Dry Incineration → Dilution in "Agua Regia" Process according to "G. Bryson. 2014. Plant Analysis Handbook III. 571 pp."

REFERENCE METHODS USED

PARAMETERS	METHOD
Total Kjeldahl Nitrogen (N-Total)	AOAC 978.04
Phosphorus (P)	SM 4500-PC
Potassium (K)	SM 3500-KB / AOAC 975.03
Magnesium (Mg)	AOAC 975.03
Calcium (Ca)	AOAC 975.03
Sulfur (S)	AOAC 923.01
Sodium (Na)	SM 3500-Na B
Iron (Fe)	AOAC 975.03
Manganese (Mn)	AOAC 975.03
Copper (Cu)	AOAC 975.03
Zinc (Zn)	AOAC 975.03
Boron (B)	AOAC 982.01
Molybdenum (Mo)	EPA 7010
Silicon (Si)	EPA 7010
Chloride (Cl) ⁻	SM 4500-Cl G / SM 4500-Cl D Potentiometric Method
% Dry material	AOAC 930.04

We work under the ISO 17025 Standard

RESULTS

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SAMPLE INFORMATION		
Additional Information:	Golden Spike	
Type of sample:	Leaves	
Culture:	Pastures	
Sample number:	# 1	# 2
Information Provided by the Client:	Witness Field	Crop Booster field

Macro- and microelements content in Dry Matter (macroelements in%, microelements in ppm equivalent to mg / kg or $\mu\text{m} / \text{g}$)

Analysis	Units	* Normal levels of Mixed Pastures (mix of different forage species)	Outcome	Outcome
Dry material	%	-	13.9	16.6
Ash	%	-	12.9	11.2
Protein	%	-	23.3	21.9
Total Nitrogen (N)	%	2.60 - 5.00	3.72	3.51
Phosphorus (P)	%	0.35 - 0.60	0.41	0.31
Potassium (K)	%	2.00 - 3.50	2.88	3.26
Magnesium (Mg)	%	0.20 - 0.60	0.20	0.21
Calcium (Ca)	%	0.60 - 1.20	0.40	0.45
Sulfur (S)	%	0.25 - 0.55	0.30	0.31
Sodium (Na)	%	0.02 - 0.20	0.21	0.15
Iron (Fe)	ppm	80 - 250	96.8	124
Manganese (Mn)	ppm	50 - 150	25.8	46.2
Copper (Cu)	ppm	5 - 12	7.8	10.5
Zinc (Zn)	ppm	20 - 70	15.8	26.4
Boron (B)	ppm	15 - 50	21.2	24.4
Neutral Fiber Detergent - FND	%	-	46.0	54.4
Detergent Acid Fiber - FAD	%	-	24.0	31.0

* Source: G. Bryson. 2014. Plant Analysis Handbook III, 571 pp.

* State of Development: new growth, all foliage.

- = Not Applicable

- Note:**
- The data and results are based on the information and samples provided by the client for whom this report has been made exclusively and confidentially.
 - The test date and the methods used are available to the client when required.
 - The Laboratory did not carry out the sampling, therefore it does not certify the origin of the samples.
 - Total or partial reproduction of the results is prohibited. No copy is applicable.



Agrarprojekt SA
Dr. Karl Sponagel
Laboratory Director