

Test report

Order number TL-23-6430
Date of arrival 22.11.2023
Client
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Test report no PR-23-6430-1
Client sample no/name 1. ROHUSILO
Material Grass silage
Sample date 20.11.2023

Name of characteristic	Unit	Result	Substance
Yeasts and moulds (total count) (EVS-ISO 21527-1-2:2009*)			
Moulds in 1g	cfu/g	$4.50 \cdot 10^2$	in original matter
Moulds in 1g	cfu/g	$7.32 \cdot 10^2$	in dry matter
Yeasts in 1g	cfu/g	$1.28 \cdot 10^4$	in original matter
Yeasts in 1g	cfu/g	$2.08 \cdot 10^4$	in dry matter

Name of characteristic	Result	Substance
Salmonella spp (EVS-EN ISO 6579-1:2017*)		
Salmonella spp in 25g	Absent	in original matter

Name of characteristic	Result	Raiting good	Raiting satisfactory	Raiting bad
Nutritional parameters of silage (Peegeldusspektromeeter FOSS NIRSystem*)				
Dry matter, %	61.5			
Protein, DMB %	9.7	> 15	12 - 15	< 12
Acid detergent fibre (ADF) , DMB %	39.8	legume < 35 grass < 37	legume 36 - 42 grass 38 - 45	legume > 43 grass > 45

Name of characteristic	Result	Raiting good	Raiting satisfactory	Raiting bad
Neutral detergent fibre (NDF), DMB %	59.7	legume < 46 grass < 55	legume 47 - 60 grass 56 - 65	legume > 60 grass > 65
Ash, DMB %	6.9		< 10	> 10
Phosphorus, DMB %	0.2			
Potassium, DMB %	1.8			
Calcium, DMB %	0.9			
Magnesium, DMB %	0.2			
Fermentation quality of silage (Moisio, Heikonen; 1989; A Titration Method*)				
pH dry matter < 25 %		< 4.1	4.1 - 4.2	> 4.2
pH dry matter 25 - 40 %		< 4.3	4.3 - 4.7	> 4.7
pH dry matter > 40 %	4.8	< 4.7	4.7 - 5.0	> 5.0
Lactic acid, DMB g/kg	37	35 - 80	80 - 100	> 100
Acetic acid DM, g/kg	18			
Total content of volatile fatty acids, DMB g/kg	55	< 100	100 - 30	> 130
Reducing sugars, DMB g/kg	23			
Calculated results				
Digestibility, DMB %	58	> 65	50 - 65	< 50
Metabolic energy, DMB MJ/kg	9.0	> 9.5	8 - 9.5	< 8
NH3-N / total N, %	3.5	< 7	7 - 10	> 10
Soluble N / total N, %	48	< 50	50 - 70	> 70
Index of intake	86	95 - 110	80 - 95	< 80
Absorbing amino acids in small intestine, DMB g/kg	75			
Gastric level of protein, DMB g/kg	8			
Realistic intake of dry matter, %	1.73			
Max edible amount of silage, considering NDF content and fermentation quality, kg	11			
Max daily edible amount of silage, kg	18			

Rating criteria

Criteria of evaluation are based on

1. Valio nõuded silos olevale piimhappele, hapete kogu summale ja lahustuvale lämmastikule kogu lämmastikust.
2. Rohusööda toiteväärtus. Eesti Põllumajandusülikool, Eesti Maaviljeluse Instituut lk.9. Saku, 2007
3. Rehutaulukot ja ruokintasuositukset 2004, MTT.n selvityksia 86

Notes

- 1 Test results are valid only for tested samples.
- 2 Test report is not the substitute of certificate.
- 3 Only whole test reports may be copied. For copy in parts is obligatory to have the permission of laboratory.
- 4 * Test method is not accredited.

Analysis dates 23.11.2023 - 30.11.2023

Issue date 30.11.2023

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