

Forage Analysis Report

Farm Details		Additional Recipient	
Dr Virgilio Ambriz BioSimetrics Ltd SRUC Building West Mains Road Edinburgh EH9 3JG		Dr Virgilio Ambriz Vilchis BioSimetrics Ltd - SRUC The Cottage SRUC Building West Mains Road EH9 3JG	
Client Code VIRGIL6			
Sample Details			
Sample Name:	3rd cut grass silage	Additive:	Date Received: 25/11/2019
Sample Type:	Grass Silage		Date Reported: 05/12/2019
			Lab Reference 30848

	Measured		
Dry Matter (%)	44.5		
Ash (% DM)	9.8		
Active Fibre (% DM)	13.5		
Energy			
D value (% DM) <i>predicted by gas production</i>	59.8		
Metabolisable Energy (ME as MJ/kg DM)	9.6		
Fermentable ME (FME as MJ/kg DM)	7.6		
FME/ME	0.79		
Oil (% DM)	3.6		
Total Carbohydrate (TCHO as % DM)	68.0		
Acid Detergent Fibre (ADF as % DM)	26.0		
Neutral Detergent Fibre (NDF as % DM)	45.6		
Total Starch (% DM)	0.0		
<i>In vitro Degradability Characteristics</i>			
	Amount	Fractional Rate	Lag time
	(% DM)	(/h)	(h)
Sugar	10.0	0.523	
Other Quickly Degraded CHO	12.4	0.162	
Quickly Degraded Starch	0.0	0.000	
Slowly Degraded Starch	0.0	0.000	0.0
Fermentable NDF	23.2	0.065	3.8

Protein			
Crude Protein (CP as % DM)	15.2		
<i>In vitro Degradability Characteristics</i>			
	Amount	Fractional Rate	Lag time
	(CP fraction)	(/h)	(h)
Quickly Degradable Protein (a)	0.22	0.425	
Slowly Degradable Protein (b)	0.72	0.078	2.2
Effective Rumen Degradable Protein at 0.08/h (eRDP as CP fraction)	0.49		
Undegradable Protein at 0.08/h (UDP as CP fraction)	0.47		
Ammonia (g/kg DM)	2.51		

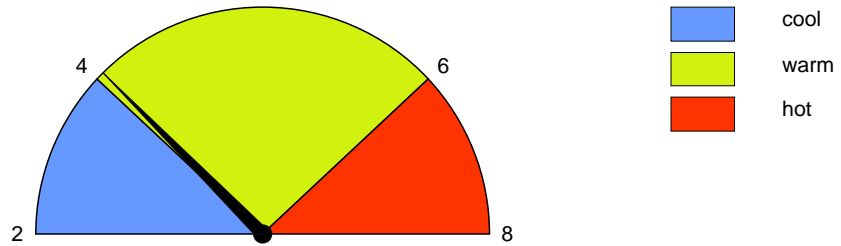
Fermentation Characteristics	
Lactic Acid (% DM)	3.5
VFA (% DM)	1.5
pH	5.1

Grass Silage

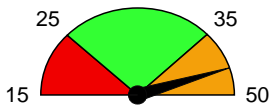
This is how your forage will perform in the rumen

3rd cut grass silage
30848

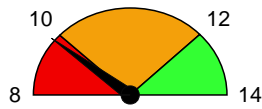
Microbial Growth Potential



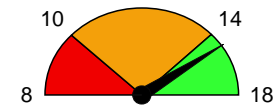
Dry Matter
44.5



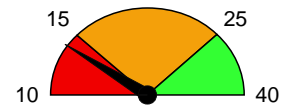
ME (MJ/kg DM)
9.6



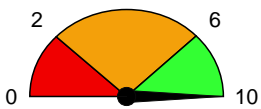
Crude Protein (% DM)
15.2



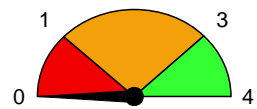
Active Fibre (% DM)
13.5



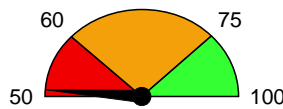
Total Sugar (% DM)
10.0



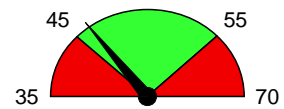
Total Starch (% DM)
0.0



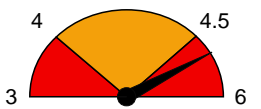
fNDF (% NDF)
50.8



NDF (% DM)
45.6



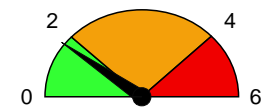
pH
5.1



Lactic Acid (% DM)
3.5



Volatile Fatty Acids (% DM)
1.5



Ammonia (% Total N)
10.3

