



ANALYSIS REPORT

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Client:	NPK Simpson	Lab No:	500015	shpv1
Address:	MoreDosh Farms Somewhere NORTH ISLAND	Date Registered:	03-Sep-2010	
		Date Reported:	03-Sep-2010	
		Quote No:		
		Order No:		
		Client Reference:	Example Report	
		Submitted By:	NPK Simpson	

Sample Name: Meadow Baleage

Lab Number: 500015.1

Sample Type: Mixed Pasture, Haylage/Baleage (P322)

Analysis		Level Found	Medium Range	Low	Medium	High
Nitrogen	%	2.3	2.0 - 3.2			
Dry Matter	%	42.0	35.0 - 45.0			
Crude Protein	%DM	15.8	14.0 - 20.0			
Acid Detergent Fibre	%DM	31.2	20.0 - 40.0			
Neutral Detergent Fibre	%DM	48.4	30.0 - 50.0			
Ash	%DM	9.7	7.0 - 14.0			
Soluble Sugars	%DM	7.3				
Starch	%DM	< 0.5				
Digestibility of Organic Matter in Dry Matter (DOMD)	%	64.0	65.0 - 75.0			
Metabolisable Energy	MJ/Kg	10.2	9.0 - 11.0			
pH	pH Units	4.7	4.0 - 4.7			
Ammonium-N	%DM	0.23				
Ammonium-N/Total-N Ratio	%	9.8	5.0 - 12			
Lactic Acid	%DM	1.7	6.0 - 10.0			

The above nutrient graph compares the levels found with reference interpretation levels. NOTE: It is important that the correct sample type be assigned, and that the recommended sampling procedure has been followed. R J Hill Laboratories Limited does not accept any responsibility for the resulting use of this information.

Analyst's Comments

The starch analysis is not a precise test at low levels (0 - 10%). Low levels of starch reported are therefore not reliable and must be interpreted with caution.



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SUMMARY OF METHODS

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively clean matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis.

Sample Type: Plant			
Test	Method Description	Default Detection Limit	Samples
Sample Registration	Samples were registered according to instructions received.	-	1
Plant Prep (Dry & Grind)	Oven dried at 62°C overnight (residual moisture typically 5%) and ground to pass through a 1.0mm screen.	-	1
Nitrogen	Estimated by NIR, calibration based on N by Dumas combustion.	0.1 %	1
Dry Matter	Weight Loss on drying at 105°C for 24 hours. (Silage corrected for loss of volatiles).	0.5 %	1
Crude Protein	Nitrogen multiplied by 6.25. Reported on DM basis.	0.5 %DM	1
Acid Detergent Fibre	Estimated by NIR, calibration based on ADF by NFTA method. Reported on DM basis.	0.5 %	1
Neutral Detergent Fibre	Estimated by NIR, calibration based on NDF by NFTA method. Reported on DM basis.	0.5 %	1
Ash	Estimated by NIR, calibration based on weight loss after ashing at 600°C for two hours. Reported on DM basis.	0.5 %	1
Digestibility of Organic Matter in Dry Matter (DOMD)	Calculated from Organic Matter Digestibility (OMD) using AFIA (Australian Fodder Industry Association) Standard Equation.	0.5 %	1
Metabolisable Energy	Calculated from Dry Organic Matter Digestibility (DOMD) using AFRC and Lincoln University standard formulae.	0.5 MJ/Kg	1
pH	Water slurry followed by potentiometric pH determination.	0.1 pH Units	1
Ammonium-N	Analysed on an 'as received' fraction but reported on a dry weight basis. Water extraction followed by Berthelot colorimetry.	0.05 %DM	1
Soluble Sugars	Estimated by NIR, calibration based on an 80:20 ethanol:water extraction and colorimetric determination. Reported on DM basis.	0.5 %	1
Starch	Estimated by NIR, calibration based on Enzymic Hydrolysis of Starch. Reported on DM basis.	0.5 %	1
Lactic Acid	Water extraction, IC analysis.	0.2 %DM	1

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Samples are held at the laboratory after reporting for a length of time depending on the preservation used and the stability of the analytes being tested. Once the storage period is completed the samples are discarded unless otherwise advised by the client.

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Fiona Calvert NZCS
Client Services Manager - Agriculture Division