



## NIR FEED ANALYSIS REPORT

CLIENT / SAMPLE DETAILS			
<b>Client:</b>	OSP Demo tomsett Dairies		
<b>Order No.:</b>	5347	<b>Order Date:</b>	27/01/2017
<b>Sample ID:</b>	Tomsett Dairies #4 Pasture 20170127	<b>Sample Type:</b>	Pasture
<b>Sample Date:</b>	27/01/2017 4:30:36 p.m.	<b>Report Date:</b>	Friday, 27 January 2017

ANALYSIS	Reported As	LEVELS DETECTED	MEDIUM RANGE	COMMENTS
Nitrogen	%	3.2	4.0 – 5.0	
Dry Matter	%	19.3	12.0 – 30.0	
Crude Protein	%DM	20.6	20.0 – 30.0	
Acid Detergent Fibre	%DM	27.9	20.0 – 30.0	
Neutral Detergent Fibre	%DM	48.4	30.0 – 45.0	
Ash	%DM	10.9	7.0 – 14.0	
Soluble Sugar	%DM	4.7		
Starch	%DM	0.6		
Crude Fat	%DM	3.2		
Digestibility of OM in DM	%	66.5	65.0 – 80.0	
Metabolisable Energy	MJME/ kg DM	10.6	9.0 – 12.0	

TESTING TECHNICIAN	SIGNED
C Burton	

**NOTES:**

- The results contained in this report compares the levels found with reference interpretation levels.
- This report has been prepared with all reasonable care from the information supplied and is believed to be accurate and reliable.
- Dairy Business Centre (NZ) Limited accepts no responsibility for any consequences arising out of the use of the information contained within this report.



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CLIENT / SAMPLE DETAILS			
<b>Client:</b>	OSP Demo tomsett Dairies		
<b>Order No.:</b>	5345	<b>Order Date:</b>	27/01/2017
<b>Sample ID:</b>	Tomsett Dairies #Steep1 Pasture 20170127	<b>Sample Type:</b>	Pasture
<b>Sample Date:</b>	27/01/2017 4:24:50 p.m.	<b>Report Date:</b>	Friday, 27 January 2017

ANALYSIS	Reported As	LEVELS DETECTED	MEDIUM RANGE	COMMENTS
Nitrogen	%	4.1	4.0 – 5.0	
Dry Matter	%	17.6	12.0 – 30.0	
Crude Protein	%DM	26.3	20.0 – 30.0	
Acid Detergent Fibre	%DM	24.9	20.0 – 30.0	
Neutral Detergent Fibre	%DM	42.6	30.0 – 45.0	
Ash	%DM	10.8	7.0 – 14.0	
Soluble Sugar	%DM	6.7		
Starch	%DM	0.5		
Crude Fat	%DM	3.9		
Digestibility of OM in DM	%	71.9	65.0 – 80.0	
Metabolisable Energy	MJME/ kg DM	11.5	9.0 – 12.0	

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## NIR FEED ANALYSIS REPORT

CLIENT / SAMPLE DETAILS			
<b>Client:</b>	OSP Demo tomsett Dairies		
<b>Order No.:</b>	5346	<b>Order Date:</b>	27/01/2017
<b>Sample ID:</b>	Tomsett Dairies #3 Pasture 20170127	<b>Sample Type:</b>	Pasture
<b>Sample Date:</b>	27/01/2017 4:27:50 p.m.	<b>Report Date:</b>	Friday, 27 January 2017

ANALYSIS	Reported As	LEVELS DETECTED	MEDIUM RANGE	COMMENTS
Nitrogen	%	4.2	4.0 – 5.0	
Dry Matter	%	16.8	12.0 – 30.0	
Crude Protein	%DM	28.8	20.0 – 30.0	
Acid Detergent Fibre	%DM	25.3	20.0 – 30.0	
Neutral Detergent Fibre	%DM	40.6	30.0 – 45.0	
Ash	%DM	10.3	7.0 – 14.0	
Soluble Sugar	%DM	6.0		
Starch	%DM	0.7		
Crude Fat	%DM	3.4		
Digestibility of OM in DM	%	71.3	65.0 – 80.0	
Metabolisable Energy	MJME/ kg DM	11.4	9.0 – 12.0	

TESTING TECHNICIAN	SIGNED
C Burton	

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## GUIDELINES ON PASTURE QUALITY RESULTS

### Dry Matter Percentage (DM %)

#### <18% - Caution

- Large quantities of water consumed – Lowers pasture intake.
- Reduced water intake – reduced Dosatron effectiveness during peak mineral requirement.
- Mowing up to 6 hours pre-grazing advised.

#### 18%-25%

- No immediate need for any management changes.

#### >25% - Caution

- Quality characteristics may be reduced. This is usually a result of the seed head emerging and pasture going reproductive, typical in summer pasture.

### Crude Protein (CP)

#### <18% - Caution

- Pasture is low in protein. Cows may be deficient and production may be reduced.
- Usually occurs during mid-summer as the seed head has emerged.
- Protein supplement recommended to maintain milk solid production.

#### 18% - 28%

- Adequate, protein levels should be sufficient to meet requirement if intake isn't restricted.

#### >28% - Caution

- High CP will not be well utilised, more energy is needed for microbial protein conversion.
- Protein can be diluted down with supplements such as straw, PKE or baleage.

### Neutral Detergent Fibre (NDF)

#### 37% - 40%

- Pasture is less filling = more energy consumed per unit of fill.
- Acidosis may be an issue – ensure cows are not hungry going onto pasture.

#### 41% - 43%

- Medium range – energy demands should be able to be met before rumen fill limit is reached

#### >44% - Caution

- DMI may be limited as pasture is more filling per kg DM, therefore reduced ME & CP intake.

### Metabolisable Energy (ME)

#### <11 MJME/ kg DM – Caution

- Low energy- production will be limited.

#### 11 MJME/ kg DM – 12.5 MJME/kg DM

- Typical good quality pasture.

#### >12.5 MJME/ kg DM

- Energy content is extremely high, acidosis may be an issue.