

Company:	Reference: <b>Andrea Macchia</b>		
Farm/Client:	<b>SICEM srl - Gruppo Carli Pietracuta di San Leo (RN)</b>		
Sample:	<b>Ryegrass Hay- Crop 2021 - Sample n. 06-TO05-2021-FBB</b>		
Date received:	<b>26/05/2021</b>	Start date: <b>26/05/2021</b>	End date: <b>30/06/2021</b>
Sample N.°:	<b>7702/1</b>	Sampled by: <b>by the customer (Delivery by courier)</b>	

PARAMETER	METHOD	As is Basis	Dry Basis	Units
Moisture:	In oven at 65°C x 16h	<b>4,32</b>		% (g/100g)
Dry matter:	Result by calculation	<b>95,68</b>		% (g/100g)
Crude Protein -CP:	Spectrum processing: Dairyland	<b>9,80</b>	<b>10,24</b>	% (g/100g)
Acid Detergent Insolub. CP -ADICP:	Spectrum processing: Dairyland	<b>0,74</b>	<b>0,77</b>	% (g/100g)
Neutral Detergent Insol. CP -w/Na2SO4:	Spectrum processing: Dairyland	<b>3,30</b>	<b>3,45</b>	% (g/100g)
Protein Solubility:	Spectrum processing: Dairyland		<b>35,84</b>	%CP
ADF:	Spectrum processing: Dairyland	<b>31,50</b>	<b>32,92</b>	% (g/100g)
aNDF:	Spectrum processing: Dairyland	<b>48,06</b>	<b>50,23</b>	% (g/100g)
aNDFom:	Spectrum processing: Dairyland	<b>47,01</b>	<b>49,14</b>	% (g/100g)
Lignin (ADL):	Spectrum processing: Dairyland	<b>3,43</b>	<b>3,59</b>	% (g/100g)
NDF Digestibility 12 h:	Spectrum processing: Dairyland		<b>39,87</b>	%NDFom
NDF Digestibility 30 h:	Spectrum processing: Dairyland		<b>58,79</b>	%NDFom
NDF Digestibility 120 h:	Spectrum processing: Dairyland		<b>68,46</b>	%NDFom
NDF Digestibility 240 h:	Spectrum processing: Dairyland		<b>70,66</b>	%NDFom
Undigested NDF 12 h:	Spectrum processing: Dairyland	<b>28,27</b>	<b>29,55</b>	% (g/100g)
Undigested NDF 30 h:	Spectrum processing: Dairyland	<b>19,37</b>	<b>20,25</b>	% (g/100g)
Undigested NDF 120 h:	Spectrum processing: Dairyland	<b>14,83</b>	<b>15,50</b>	% (g/100g)
Undigested NDF 240 h:	Spectrum processing: Dairyland	<b>13,80</b>	<b>14,42</b>	% (g/100g)
Starch:	Spectrum processing: Dairyland	<b>2,07</b>	<b>2,16</b>	% (g/100g)
Fat (etheral extract):	Spectrum processing: Dairyland	<b>2,70</b>	<b>2,82</b>	% (g/100g)
Total Fatty Acid (TFA):	Spectrum processing: Dairyland	<b>1,17</b>	<b>1,22</b>	% (g/100g)
16:0 Palmitic:	Spectrum processing: Dairyland	<b>18,85</b>		%TFA
18:0 Stearic:	Spectrum processing: Dairyland	<b>4,92</b>		%TFA
18:1 Oleic:	Spectrum processing: Dairyland	<b>4,92</b>		%TFA
18:2 Linoleic:	Spectrum processing: Dairyland	<b>13,11</b>		%TFA
18:3 Linolenic:	Spectrum processing: Dairyland	<b>56,56</b>		%TFA
Ash:	Spectrum processing: Dairyland	<b>7,49</b>	<b>7,83</b>	% (g/100g)
NFC:	Calculation processing: Dairyland	<b>32,55</b>	<b>34,02</b>	% (g/100g)
ethanol-solub. carbohydrates -ESC:	Spectrum processing: Dairyland	<b>10,09</b>	<b>10,55</b>	% (g/100g)
water-soluble carbohydrates (WSC):	Spectrum processing: Dairyland	<b>15,90</b>	<b>16,62</b>	% (g/100g)
Adjusted Crude Protein:	Calculation processing: Dairyland	<b>9,80</b>	<b>10,24</b>	% (g/100g)
Relative Feed Value (RFV):	Calculation processing: Dairyland		<b>117,20</b>	
Relative Forage Quality (RFQ):	Calculation processing: Dairyland		<b>157,99</b>	
TDN Milk 2013:	Calculation processing: Dairyland		<b>63,44</b>	% (g/100g)
Nel 3x Milk2013:	Calculation processing: Dairyland		<b>1,514</b>	Mcal/Kg
Neg Milk2013:	Calculation processing: Dairyland		<b>0,837</b>	Mcal/Kg
Nem Milk2013:	Calculation processing: Dairyland		<b>1,421</b>	Mcal/Kg

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Milk per TON Milk 2013:	Calculation processing: Dairyland		<b>1459</b>	kg/ton
CRUDE FIBRE:	Reg. CE 152/2009 modify Ankom	<b>26,51</b>	<b>27,71</b>	% (g/100g)
Calcium (Ca):	X-Ray Fluorescence (XRF)	<b>0,784</b>	<b>0,819</b>	% (g/100g)
Chlorine (Cl):	X-Ray Fluorescence (XRF)	<b>0,599</b>	<b>0,626</b>	% (g/100g)
Potassium (K):	X-Ray Fluorescence (XRF)	<b>2,317</b>	<b>2,422</b>	% (g/100g)
Magnesium (Mg):	X-Ray Fluorescence (XRF)	<b>0,120</b>	<b>0,125</b>	% (g/100g)
Sodium (Na):	X-Ray Fluorescence (XRF)	<b>0,036</b>	<b>0,038</b>	% (g/100g)
Sulfur (S):	X-Ray Fluorescence (XRF)	<b>0,125</b>	<b>0,131</b>	% (g/100g)
Phosphorus (P):	X-Ray Fluorescence (XRF)	<b>0,201</b>	<b>0,210</b>	% (g/100g)
Iron (Fe):	X-Ray Fluorescence (XRF)	<b>77,2</b>	<b>80,7</b>	ppm (mg/kg)
Copper (Cu):	X-Ray Fluorescence (XRF)	<b>4,6</b>	<b>4,8</b>	ppm (mg/kg)
Zinc (Zn):	X-Ray Fluorescence (XRF)	<b>27,2</b>	<b>28,4</b>	ppm (mg/kg)
Manganese (Mn):	X-Ray Fluorescence (XRF)	<b>35,2</b>	<b>36,8</b>	ppm (mg/kg)
Silicon (Si)	X-Ray Fluorescence (XRF)	<b>2,69</b>	<b>2,81</b>	% (g/100g)
DCAD (Ender 1971):	By calc (Na+K)-(Cl+S); Ender et al. 1971		<b>37,82</b>	m. eq/100g

Calibration XRF (X-Ray Fluorescence spectroscopy) by the Laboratory. Analysis on the ground and compressed sample at 40 Tons. The sample is held at the Laboratory for 30 days from its arrival. PREPARATION OF DRY GRIANDED AND INSTRUMENTAL NIR ANALYSIS PERFORM

**Gonzaga, 30/06/2021**

The Area Manager  
The Technical Management  
Dr Eugenio Mancinelli

