FORAGE LAB AUSTRALIA

An Affiliate of Cumberland Valley Analytical Services USA

Copies to:

Lab ID: **39725 212**
Sampled: **10/22/2026**
Arrived: **10/26/2026**
Completed: **10/29/2026**
Reported: **10/29/2026**

QUARRY

SAMPLE INFORMATION			
Lab ID:	39725 212	Version:	1.0
Feed Type:	Vetch	Crop Year:	
Package:	BASIC NIR	Cutting#:	

NIR ANALYSIS RESULTS	
Moisture	9.5
Dry Matter	90.5

PROTEINS	% SP	% CP	% DM
Crude Protein			19.6
Adjusted Protein			19.6
Soluble Protein		34.1	6.7
Ammonia (CPE)	5.4	1.8	0.36
ADF Protein (ADICP)		13.1	2.57
NDF Protein (NDICP)		29.9	5.86
NDR Protein (NDRCP)			
Rumen Degr. Protein			
Amino Acid Protein, Total			
Lysine			
Methionine			
Isoleucine			
Leucine			
Histidine			
Valine			
Arginine			

FIBER	% NDF	% DM
ADF	75.4	41.9
aNDF		55.6
aNDFom		54.7
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	18.8	10.5
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (12 hr)		
uNDF (24 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES	% Fat	% Starch	% NFC	% DM
ESC, Sugar			16.9	3.0
WSC, Sugar				7.3
Starch				
Soluble Starch				
Soluble Fiber				
Starch Dig. (7 hr, 4 mm)				
Crude Fat				1.47
Fatty Acids, Total				
C16:0				
C18:0				
C18:1				
C18:2				
C18:3				
Unsaturated Fatty Acids				

MINERALS	
Ash (%DM)	11.3
Calcium (%DM)	1.02
Phosphorus (%DM)	0.37
Magnesium (%DM)	0.31
Potassium (%DM)	3.52
Sulfur (%DM)	0.26
Sodium (%DM)	
Chloride (%DM)	0.67
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

QUALITATIVE	
pH	
Total VFA (%DM)	
Lactic Acid (%DM)	
Lactic as % of Total VFA	
Acetic Acid (%DM)	
Propionic Acid, %DM	
Butyric Acid (%DM)	
1, 2 Propanediol (%DM)	
Nitrate Ion (%DM)	
Nitrate-Nitrogen, ppm	

Soil Contamination Probability	
Soil Contamination (%DM)	<1
NIR Statistical Confidence	

ENERGY & INDEX CALCULATIONS	
TDN (%DM)	47.4
Net Energy Lactation (mj/kg)	4.35
Net Energy Maintenance (mj/kg)	3.44
Net Energy Gain (mj/kg)	1.18
ME (mj/kg)	6.94
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.4
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	94
Relative Forage Quality (RFQ)	
Milk per Ton (kg/tonne)	
Milk per Ton 2024(kg/tonne)	
Beef per Ton (kg/tonne)	
Dig. Organic Matter Index (kg/tonne)	
NFC (Non-Fiber Carbohydrates)(%DM)	17.9
NSC (Non-Structural Carbohydrates) ESC (%DM)	
NSC (Non-Structural Carbohydrates) WSC (%DM)	
DCAD, meq/kg- NIR Estimate	557.7
Summative Index % (Mass Balance)	
V Score	

Values in bold were analyzed by wet chemistry methods.