



FORAGE LAB AUSTRALIA

An Affiliate of Cumberland Valley Analytical Services USA

Farm: MULTICUBE STOCKFEEDS
Desc: LUC/TEFF CUBES
Submitter: FORAGE LAB AUSTRALIA, .

LUC/TEFF CUBES

Reported: 12/22/2025

SAMPLE INFORMATION

Version: 1.0

Feed Type: MIXED FORAGE
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 9.8
Dry Matter 90.2

PROTEINS % SP % CP % DM

Crude Protein 18.0
Adjusted Protein 18.0
Soluble Protein 40.5 7.3
Ammonia (CPE) 18.9 7.7 1.38
ADF Protein (ADICP) 7.7 1.39
NDF Protein (NDICP) 16.2 2.92
NDR Protein (NDRCP)
Rumen Degr. Protein 70.3 12.7
Amino Acid Protein, Total
Lysine
Methionine
Isoleucine
Leucine
Histidine

FIBER % NDF % DM

ADF 68.6 32.9
aNDF 47.9
aNDFom 47.2
NDR (NDF w/o sulfite)
Crude Fiber
Lignin 13.6 6.51
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 (30 hr)
uNDF (120 hr)
uNDF (240 hr)

CARBOHYDRATES % Starch % NFC % DM

Ethanol Soluble CHO (ESC-Sugar) 28.6 7.7
Water Soluble CHO (WSC-Sugar) 9.4
Starch 7.3 2.0
Soluble Starch
Soluble Fiber
Starch Dig. (7 hr, 4 mm)
Crude Fat 1.99
Fatty Acids, Total
C16:0
C18:0
C18:1
C18:2
C18:3

Unsaturated Fatty Acids (RUFAL)

Fatty Acids (%Fat)

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM) 8.14
Calcium (%DM) 0.99
Phosphorus (%DM) 0.24
Magnesium (%DM) 0.26
Potassium (%DM) 2.23
Sulfur (%DM) 0.24
Sodium (%DM)
Chloride (%DM) 0.50
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)
Butyric Acid (%DM)
1, 2 Propanediol (%DM)
Nitrate Ion (%DM)
Nitrate-Nitrogen, ppm

Soil Contamination Probability
NIR Statistical Confidence

ENERGY & INDEX CALCULATIONS

TDN (%DM) 58.9
Net Energy Lactation (mj/kg) 5.53
Net Energy Maintenance (mj/kg) 5.49
Net Energy Gain (mj/kg) 3.09
ME (mj/kg) 9.09
AA Protein as % of Total Protein
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)
NDF Dig. Rate (Kd, %HR, uNDF) 4.5
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 123
Relative Forage Quality (RFQ)
Milk per Ton (kg/tonne) 1377
Milk per Ton 2024(kg/tonne)
Beef per Ton (kg/tonne)
Dig. Organic Matter Index (kg/tonne)
NFC (Non-Fiber Carbohydrates)(%DM) 26.9
NSC (Non-Structural Carbohydrates) ESC (%DM) 9.7
NSC (Non-Structural Carbohydrates) WSC (%DM) 11.4
DCAD (meq/100gdm)
Summative Index % (Mass Balance)
V Score

