

## Equine Standard NIR

Client: Andrew's Hay  
 Description: Eastern Compressed 2nd  
 Feed Type: Timothy Hay  
 Sample #: 170917

Date Tested: 10/4/2022  
 Reported: 10/4/2022  
 Sampled: 9/23/2022

Nutrient	Dry Basis		
Moisture	9.72	%	Percentage of hay that is water, by weight. Moisture above 18% causes excessive heating and molding.
Dry_Matter	90.28	%	
<b>Protein</b>			
CP	12.07	%DM	Breakdown of proteins. Consult your veterinarian about any concerns you may have relating to your animals' dietary needs.
AD-ICP	5.63	%CP	
ND-ICP w/SS	14.83	%CP	
Protein Sol	35.29	%CP	
<b>Fiber</b>			
ADF	36.60	%DM	Breakdown of fiber. Too little fiber may lead to soft stools.
aNDF	57.51	%DM	
aNDFom	54.70	%DM	Consult your veterinarian about any concerns you may have relating to your animals' dietary needs.
Lignin (Sulfuric Acid)	4.09	%DM	
<b>Carbohydrates and Fat</b>			
ESC(Sugar)	11.33	%DM	Breakdown of carbs and fats. While important for energy, too much can lead to runny stools. (See NSC below for metabolic issues)
WSC(Sugar)	12.06	%DM	
Starch	1.74	%DM	
Crude Fat (EE)	3.28	%DM	Consult your veterinarian about any concerns you may have relating to your animals' dietary needs.
Total Fatty Acids (TFA)	1.26	%DM	
<b>Minerals</b>			
Ash	9.22	%DM	Breakdown of mineral or ash content.
Calcium	0.48	%DM	
Phosphorus	0.33	%DM	Horse owners will usually look for a C:P from 6:1 to 1:1 and C:M around 3:1. These ratios are important for maintaining healthy bones and proper nerve and muscle function.
Magnesium	0.17	%DM	
Potassium	2.34	%DM	
Sulfur	0.17	%DM	Consult your veterinarian about any concerns you may have relating to your animals' dietary needs.
<b>Qualitative</b>			
<b>Calculations</b>			
NFC	23.54	%DM	Non-structured Carbohydrates
NSC	13.80	%DM	
RFV	97.84		For horses or other animals with metabolic issues, this is the number you're looking for!
Adj Crude Protein	12.07	%DM	
TDN_OARDC	60.07	%DM	Horses with metabolic issues, laminitis, or Cushing's typically look for a percentage under 12%.
NEL3x_OARDC	0.61	Mcal/lb	
NEG_OARDC	0.34	Mcal/lb	Animals on severe restrictions maybe require an NSC under 10%
NEM_OARDC	0.61	Mcal/lb	
California_TDN_90%dry	49.39	Hay equiv, %DM	Say it with me, "Consult your veterinarian about any concerns you may have relating to your animals' dietary needs."
Equine_TDN	54.34	%DM	
Equine_DE	1.02	Mcal/lb	