



# CUMBERLAND VALLEY ANALYTICAL SERVICES

"Laboratory services for agriculture ... from the field to the feed bunk"

Farm: APPLE VALLEY  
Desc: CORN SILAGE  
Submitter: WARD, RALPH  
Account: CVAS

Copies to:

Lab ID: 12345 082  
Sampled:  
Arrived: 02/06/2025  
Completed: 02/13/2025  
Reported: 02/14/2025

## Fermentation Analysis Results

Analytical Results	DM Basis	Units	Observed Range
Dry Matter	41.2		
pH	3.98		4.2 - 5.3
Ammonia	1.95	%DM	3.4 - 12.0
Ammonia CPE	19.72	%CP	
Total VFA	6.63	%DM	3.6 - 6.9
Lactic Acid	69.78	%Total VFA	50.0 - 88.5

Lactic Acid and Volatile Fatty Acids			
Lactic Acid	4.62	%DM	2.6 - 5.1
Acetic Acid	1.95	%DM	0.7 - 2.2
Propionic Acid	0.06	%DM	0.0 - 0.3
Butyric Acid	ND	%DM	0.0 - 0.5
Iso-butyric Acid	ND	%DM	0.0 - 0.1
Isovaleric Acid	ND	%DM	2.6 - 5.1
Valeric Acid	ND	%DM	0.7 - 2.2

Alcohols, Acetates, and Lactates			
1, 2 Propanediol	0.98	%DM	0.1 - 1.0
1-Propanol		%DM	0 - 0.55
Methanol		%DM	0.01 - 0.02
Ethanol		%DM	0.01 - 0.02
2-Butanol		%DM	0 - 50.9
Methyl Acetate		%DM	0 - 0.08
Ethyl Acetate		%DM	0 - 0.04
Propyl Acetate		%DM	0 - 49.3
Ethyl Lactate		%DM	0 - 0.04
Propyl Lactate		%DM	0 - 0.02

ND = non detect. Observed ranges are average +/- 1 SD based on the dry matter category of the silage; see [www.foragelab.com](http://www.foragelab.com) for more information.



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