



# 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 041**  
Sampled: **01/07/2025**  
Arrived: **02/04/2025**  
Completed: **02/11/2025**  
Reported: **02/14/2025**

## Fermentation Analysis Results

Analytical Results	DM Basis	Units	Observed Range
Dry Matter	44.9		
pH	4.24		4.2 - 5.3
Ammonia	0.93	%DM	3.4 - 12.0
	11.07	%CP	
Total VFA	4.31	%DM	3.6 - 6.9
Lactic Acid	78.36	%Total VFA	50.0 - 88.5

Lactic Acid and Volatile Fatty Acids			
Lactic Acid	3.38	%DM	2.6 - 5.1
Acetic Acid	0.93	%DM	0.7 - 2.2
Propionic Acid	ND	%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	ND	%DM	0.1 - 1.0
1-Propanol	0.01	%DM	0 - 0.55
Methanol	0.04	%DM	0.01 - 0.02
Ethanol	0.20	%DM	0.01 - 0.02
2-Butanol	ND	%DM	0 - 50.9
Methyl Acetate	0.02	%DM	0 - 0.08
Ethyl Acetate	ND	%DM	0 - 0.04
Propyl Acetate	ND	%DM	0 - 49.3
Ethyl Lactate	ND	%DM	0 - 0.04
Propyl Lactate	ND	%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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