

## CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: WEAVER FALLS DAIRY Copies to: Lab ID: 21963 081

Desc:WHEAT SILAGESampled:05/02/2017Submitter:JONES,JOHNArrived:05/04/2017Account:FOUR STATE FEEDSCompleted:05/05/2017Reported:05/05/2017

## **Fermentation Analysis Results**

Analytical Results	DM Basis	Units	Observed Range
Dry Matter	38.4		
pH	3.83		4.2 - 5.3
Ammonia	0.93	%DM	3.4 - 12.0
	8.46	%CP	
Total VFA	6.7	%DM	5.7 - 9.6
Lactic Acid	85.3	% Total VFA	50.0 - 88.5

Lactic Acid and Volatile Fatty Acids			
Lactic Acid	5.70	%DM	3.7 - 6.8
Acetic Acid	0.98	%DM	1.0 - 2.7
Propionic Acid	ND	%DM	0.0 - 0.2
Butyric Acid	ND	%DM	0.2 - 0.8
Iso-butyric Acid	ND	%DM	0.0 - 0.2

Alcohols, Acetates, and Lactates			
1, 2 Propanediol	0.09	%DM	0.1 - 1.2
1-Propanol	ND	%DM	-
Methanol	0.02	%DM	0.01 - 0.03
Ethanol	0.69	%DM	0.01 - 0.03
2-Butanol	ND	%DM	-
Methyl Acetate	ND	%DM	0 - 0.3
Ethyl Acetate	0.01	%DM	0 - 1.85
Propyl Acetate	ND	%DM	-
Ethyl Lactate	ND	%DM	0 - 0.04
Propyl Lactate	ND	%DM	-

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



