YEAST & MOLD ANALYSIS

FACT SHEET

Field and storage conditions of feedstuffs can create an environment conducive to growing yeasts and molds. This can lead to challenges with reproduction and performance in livestock. Here is some information to help you interpret our yeast and mold reports.

Yeasts

-As Yeasts grow, they break down sugars and starches for food.
-The by-product of the breakdown of starches and sugars are water, carbon dioxide, and ethanol.
-Yeasts do not generate toxins, but at high levels they will lower the energy value of a feed.

Interpretation of Yeast Results Count (CFU/G)	**Recommendations**
Less than 1,000,000	OK for hay, dry corns or grain
Less than 4,000,000 –5,000,000	OK for corn silage or haylage
Less than 20,000,000	OK for HMSC
Greater than 1,000,000	On fermented feeds may I indicate unstable feed

Molds

- The toxins produced by molds are the cause of the performance losses.
- Storage conditions (a poorly packed bunk) or field conditions (wet weather in the fall) can lead to and increase the prevalence of molds.
- There are three main toxin causing genus'; penicillium, aspergillus and fusarium.
- Current toxin analysis identifies toxins from the fusarium mold family. This includes Vomitoxin, Zearalenone, T-2 and Fumonicin. Aflatoxin is from the aspergillus family.
- Generally Vomitoxin (DON) has been used as an indicator for all toxins.

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Mold Count Feed Recommendation		Recommendations
10 – 10,000		Relatively Safe
10,000 – 100,000	T	Transition Zone
100,000 – 10,000,000 discount		Caution is advised. Dilute with other feeds, energy (x .95) and closely observe animals performance
Over 10,000,000		Feeding may not be recommended

Currently at A&L Canada Labs we have the following Yeast & Mold packages;

Fee Code	Name	Description	Cost
TYM	Total Yeasts & Molds	Yeast & Mold reported separately	$25
TYMP	Total Yeasts & Molds Plus	Yeast, Mold, absence/presence of penicillium, aspergillus and fusarium genus	$45
Please Call	Mold Species Identification	Identify the exact species of mold Example: Aspergillus flavus, Fusarium graminearum	$125