HOW CAN KEMIN CUSTOMER LABORATORY SERVICES HELP YOU?

Clean inputs are vital to gut health

Clean inputs are critical to supporting a healthy gut, and ultimately, overall health and productivity. That means livestock and poultry producers must put an emphasis on managing profit-robbing contaminants in fat, grain, water, and finished feed.

Clean Up Your Feed with Kemin CLS

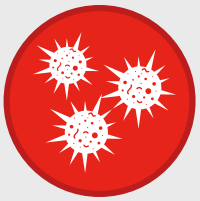
To help our customers manage profit-robbing contaminants, Kemin offers a specialized Customer Laboratory Services (CLS) team dedicated to supporting our customers as they work to clean up their feed and maximize nutritional value and biosecurity.

Our CLS Team Offers Testing Services to Address the Following Concerns:

- Evaluating new suppliers
- Assessing current ingredient quality
- Identifying pathogens
- Recommending solutions for feed quality
- Verifying product application rates

Along with your Kemin Key Account Manager, CLS can help you design and execute a project to identify potential profit-robbing contaminants in your operation. After CLS analyzes your samples, a summary report will be generated with results, an interpretation, and a final recommendation to address your concerns.

PROFIT-ROBBING CONTAMINANTS



Molds
Aspergillus, Fusarium, and *Penicillium*

Mycotoxins
Aflatoxin, DON, Fumonisin, T-2 Toxin, and Zearalenone

Lipid Oxidation
Fat and oil quality

Pathogens
In-feed bacterial challenges

KEMIN
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THE KEMIN CLS TEAM OFFERS TESTING TO ADDRESS THE FOLLOWING COMMON PROFIT ROBBERS:

Molds

Mold growth in storage can dramatically reduce the quality and nutritional value of grains and final feed.

To help manage ingredient quality, Kemin CLS can test your grain, forage, feed, etc., for microbial stability, molds, yeasts, and more.

Metric	Analysis
Microbial Stability	Water activity, moisture, and pH
Ingredient Quality	Mold count, mold identification, yeast count, and aerobic bacteria count
Product Efficacy	Days to mold or CO_2 study

Mycotoxins

Mycotoxin contamination in feed is an unavoidable and unpredictable problem faced by producers.

Effective mycotoxin management starts with knowing which mycotoxins are in your feed. Using Neogen's Veratox® ELISA methodology, CLS can test corn, DDGS, and feeds for their mycotoxin profile.

Mycotoxin	Testing Range	Mycotoxin	Testing Range
Aflatoxin	5 – 50 ppb	**T-2 Toxin**	25 – 250 ppb
Deoxynivalenol	0.5 – 5 ppm	**Zearalenone**	25 – 500 ppb
Fumonisin	0.5 – 6 ppm		

Lipid Oxidation

Oxidation is a major source of decreased fat quality. To manage oxidation, it's critical to understand both the current state and potential for future oxidation.

CLS tests fats, oils, and feed ingredients to help identify and address oxidation challenges.

Metric	Analysis
Current State of Oxidation	Peroxide value (PV) Secondary oxidatives
Potential for Future Oxidation	Oxidative stability index (OSI)
Residual Antioxidants	BHA, BHT, TBHQ, and EQ levels by gas chromatography (GC)

Pathogens

Controlling in-feed pathogens, like *Salmonella*, is critical to on-farm biosecurity.

To help keep pathogens at bay, CLS offers a variety of services to help customers address pathogen challenges in feed and feed ingredients.

Metric	Analysis
Ingredient Testing	*Salmonella* prevalence, Total *Enterobacteriaceae* count
Product Application Rate	Sal CURB® level in feed Mixer study and sampling programs

Product Recovery

Ensuring desired treatment levels are achieved is key, especially for liquid products. CLS has developed methods of analysis for many of our products to verify the application rate in feed. Our chemists and microbiologists can analyze the sample for the ingredient of interest and report out the level of product recovered.

Product	Test Used
ButiPEARL®	Butyric acid recovery
CLOSTAT®	Total *Bacillus* spore count
Myco CURB®	Propionic acid recovery
RENDOX®	Synthetic antioxidant recovery
VANNIX® C4	Tannic acid extract recovery
Sal CURB®	Propionic acid recovery

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