Complete Near-Infrared Solution for Animal Feed and Ingredient Analysis

The Thermo Scientific Antaris feed and ingredient analyzer is a rugged and easy-to-use instrument for animal feed and feed ingredient quality testing. By rapidly analyzing multiple components simultaneously without consumables, chemicals, or disposable costs, the analyzer saves you both time and money. The Antaris feed and ingredient analyzer is a pre-calibrated solution that covers the entire spectrum of feed nutrient analysis. It includes the Antaris™ II Fourier Transform Near-Infrared (FT-NIR) analyzer with INGOT® animal feed and ingredient calibrations. Simple operation of the analyzer and Thermo Scientific RESULT software makes routine analysis quick and easy.
Near-Infrared (NIR) database development requires significant investment in time, analytical resources, and money along with technical expertise in calibration model optimization. The Antaris feed and ingredient analyzer offers a pre-calibrated solution using world leading FT-NIR technology without the large investment required for NIR database development. INGOT calibration models are developed and supported by the joint cooperation of Aunir and the internationally renowned spectroscopy experts at the Walloon Agricultural Research Center (CRA-W).

The Antaris Feed and Ingredient Analyzer Advantage

- Internal, automatic background collection with sample in place eliminates operator error and sampling variability
- Fourier transform technology provides high spectral resolution
- Dynamically aligned interferometer provides excellent reproducibility in unstable production environments
- Internal calibration for better accuracy and precision
- High throughput integrating sphere for maximum collection of diffusely reflected light
- No sample preparation, consumables, or chemicals
- Heavy-duty, sealed housing protects the system
- Workflow-based software for push button routine analysis

The Antaris Feed and Ingredient Analyzer Includes:

- Antaris II FT-NIR analyzer
- Integrating Sphere Module with 5 or 12 cm sample cup spinner accessory
- RESULT™ and Thermo Scientific TQ Analyst software packages
- INGOT Level 4 Animal Feed and Ingredient calibration package
INGOT Overview

INGOT plug-n-play calibration models are used for the analysis of raw materials and finished products. They offer Antaris II FT-NIR users in flour, milling, grain, animal feeds, and food processing industries a highly cost-effective solution for monitoring key components such as moisture, protein, ash, fat, fiber, starch, and other nutritional and physical parameters. With robust calibration databases and superior method transferability, your INGOT calibration models are ready for use the day they are installed.

Verify Feed Ingredient Quality
Animal feed producers are constantly under pressure to meet tighter quality specifications while maintaining profitability and production targets. Consistent feed quality begins with having full knowledge of your incoming ingredients. NIR technology helps alleviate the concern of raw material variation by identifying out-of-specification ingredients prior to them being introduced into the production process.

Improve your Feed Production Process
NIR analysis gives feed producers timely and accurate data needed for effective real-time control of the feed production process. Process control reduces out-of-specification product thus ensuring on-time customer shipments. By using NIR to monitor the mixing, drying, and pelleting processes the feed plant can make real-time adjustments to control quality and reduce reprocess costs.

Guarantee Feed Quality
Animal feed customers have quality specifications based on the nutritional requirements for their livestock. Accurate determination of feed quality is critical for producers to meet customer, regulatory, and government requirements. Traditionally, quality tests for feed and ingredients have been undertaken by lengthy chemical methods, which are labor intensive, time consuming, and require experienced technicians. The Antaris feed and ingredient analyzer replaces a majority of these tests by performing multi-component analysis in seconds allowing accurate and reliable results while maximizing the feed producers’ profitability.

Benefits of NIR for Feed and Ingredient Analysis

The INGOT Advantage
- Calibrated models ready to use on day one
- Full technical support
- Improve operator efficiency
- Continual calibration updates and data review
- 20+ years of calibration database development ensures results independent of product variation, location, or year
- Proven track record by users in over 42 countries
- Reference wet chemistry performed according to official methods by analytical experts

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The Antaris feed and ingredient analyzer is a turn-key solution giving customers insight into the quality of the entire feed production process from incoming ingredients through production to final products. Feed production is a highly competitive marketplace with extreme pressure to optimize production output, minimize operational costs, and meet critical customer quality specifications. Pre-calibrated with the INGOT Level 4 Feed and Ingredient calibration package, the Antaris feed and ingredient analyzer is a complete analysis package enabling the animal feed manufacturer to meet these goals.

### Animal Feed and Ingredients

**Feed Only**

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<tr>
<th>Concentrate</th>
<th>Poultry</th>
<th>Ruminant</th>
<th>Swine</th>
<th>Equine</th>
<th>Aqua Feed</th>
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<tr>
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<td>Broiler</td>
<td>Beef</td>
<td>Finisher Pig</td>
<td>Rabbit</td>
<td>Fresh Water</td>
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<td>Duck</td>
<td>Chick</td>
<td>Sheep</td>
<td>Gestation Sow</td>
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<td>Grower Pig</td>
<td>Horse</td>
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<td>Layer Concentrate</td>
<td>Game</td>
<td>Dairy</td>
<td>Piglet</td>
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**Available Calibrations**

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<tr>
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<th>Max%</th>
<th>Correlation</th>
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<td>0.9402</td>
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<td>Fat</td>
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<td>Protein</td>
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<tr>
<td>Fiber</td>
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<tr>
<td>Ash</td>
<td>0.20</td>
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### Ordering Information:

Visit [www.thermoscientific.com/feedanalyzer](http://www.thermoscientific.com/feedanalyzer)