Case Study
Protein determination in food, feed and grain

Customer: UFAG Laboratorien AG, Switzerland

As the leading independent service laboratory in Switzerland, UFAG Laboratorien AG offers integral analytical solutions for the foodstuffs, feed and agriculture industry. The analytical services offered include pre and post production analysis such as quality control of food and feed products, checks on the components of animal fodder and control of organic waste.

Application: Protein determination in food and feed

Protein and nitrogen determinations are common analysis in quality and production control. While the principle of the Kjeldahl method remains unchanged, various improvements to the Kjeldahl method enhance speed, automation, safety and convenience.

Equipment: KjelDigester K-449 with Scrubber B-414 connected to Chiller B-741 and Autosampler System K-370/K-371

The capacity for 20 samples (KjelDigester and Autosampler) per batch allows high sample throughput and is the optimal size for us to handle. As the digestion with the KjelDigester K-449 is extremely fast, we save time as the digestion is no longer the bottleneck in our Kjeldahl process. We appreciate that all our BUCHI Kjeldahl instruments use the same sample tubes including the SpeedDigester K-439.

Benefit / Conclusion: Unattended process and time savings

Automation and reliability of the complete process (digestion, sampling and determination) allows unattended digestions and determinations to be performed overnight. As the digestion process with the KjelDigester K-449 is really fast, the time to the result is significantly reduced.

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"The KjelDigester helps us to get results faster and it is the ideal companion to our automated Kjeldahl system. The reliability of these instruments is essential for our service laboratory, thus we really appreciate the great support from the BUCHI service team."
Mrs. Barbara Vogel, Head of Laboratory Nutrient Analysis

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