



Case Study

Protein analysis in nutritional supplements



Customer: Bactolac Pharmaceutical, Inc., Hauppauge, NY, USA

Today, Bactolac Pharmaceutical is one of the most successful nutritional supplement companies in the world. As a full-service health supplement manufacturer and vitamin supplier, they offer everything from product manufacturing, product testing, packaging, labeling, and final dietary supplement product.

Application: USP/AOAC Method for protein determination of whey, rice, and pea protein powders used for nutritional supplements

Protein determination in whey, rice, and pea protein powders is important because they are the primary protein sources in dietary supplements. Protein determination in herbals such as spirulina, barley grass, and chlorella are also becoming more important.

Equipment: KjelDigester K-449, Scrubber K-415 TripleScrub, KjelMaster System K-375 / K-376

The KjelDigester K-449 / TripleScrub K-415 is an automated digestion / scrubber system used in the digestion step of the Kjeldahl method. The KjelMaster K-375 and KjelSampler K-376 is an automated distillation autosampler system that performs the dilution, alkalization, distillation, and titration steps of the Kjeldahl method.

Benefit / Conclusion: Automated determination of protein made easy

The BUCHI Kjeldahl System helps us with easy to operate, cutting edge technology for unattended, automated analysis of protein. By employing our BUCHI Kjeldahl System for USP / AOAC methods, we can easily determine the organic nitrogen / protein content in any green and red nutritional supplement powders.

"The BUCHI Kjeldahl equipment is a unique combination of sample digester, scrubber, distiller and titrator. All work in conjunction and provide integrated reproducible data. It is a user friendly and time saving equipment. Its advanced automation reduces labor cost and is very much useful in pharmaceutical industry."

Ph.D. Venkat Reddy Guduru, Bactolac Pharmaceutical, Inc.
