**Case Study**

**Determination of proximates in pet food**

*With a highly competitive market place and the pressures on operational costs, the pet food manufacturer cannot afford an escalation in QC costs. The BUCHI N-500 system allows for substantial QC savings to be made by reducing the costs of nutritional testing without compromising analytical accuracy and precision.*

**Customer: Manufacturer of pet food, UK**

A UK manufacturer of wet and dry natural holistic dog food, cat food, and rabbit food. Their versatile product range provides feeding solutions for dogs of all breeds, types and ages. The food can be used as an economical alternative to many Veterinary & Prescription Diets™.

**Application: Determination of proximates in pet food**

The pet food manufacturer faces ever-increasing demands for product assurance and safety, which are reflected in tougher codes of practice and assurance schemes set by major retailers and supermarkets. In order to achieve this, the manufacturer must carry out compositional analysis. These analyses are vital to ensure effective purchasing and use of raw materials as well as in-process and final testing.

**Equipment: NIRFlex® N-500**

Using the BUCHI N-500 system combined with calibrations validated with industry standard methods means that QC testing throughput levels can be increased dramatically, while the required accuracy for nutrients, such as moisture, protein, oil, fiber, and ash is maintained.

**Benefit / Conclusion:**

The integration of NIR technology into the manufacturing business has yielded significant cost savings through a better understanding of raw material quality against agreed purchasing contracts, tighter process control, and reducing the risk of reworked or scrapped products. It has also led to a reduction in the overall reliance on external wet chemistry laboratories.