AFPS – Animal feed proficiency scheme

Animal feed quality is highly regulated since the majority of animals, or their products, will be converted into food for human consumption.

EC Regulation 767/2009 stipulates the requirements for the marketing and use of animal feeds, and (with reference to related regulations) requires complete traceability of feeds, personnel, and additives, and defines the compulsory labelling requirements.

Major food safety crises can occur from the contamination of animal feed causing risks to animal and human health resulting in recalls; financial damage as large quantities of product have to be destroyed; and the potential for considerable damage to the reputation of any businesses involved.

Preventing these issues through reliable analysis at source backed up by independent verification through participation in a proficiency scheme, can help to save large sums of money for a very small investment.

Scheme operation

The AFPS scheme year operates from January to December and test materials are despatched four times per annum. Round despatch dates and reporting deadlines are available on the current AFPS application form, and further information can be found in the AFPS scheme description. These documents can be downloaded from our website www.lgcstandards.com

Test material	Analytes
Animal feed	**Proximate analysis** Acid detergent fibre (ADF), Ash insoluble in hydrochloric acid, Crude ash, Crude fat, Crude fibre, Crude protein, Moisture, Neutral detergent fibre (NDF), Pepsin protein digestibility (PPD), Starch, Sugars.
Animal feed	**Mineral and trace elements** Arsenic, Cadmium, Calcium, Chloride, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Phosphorus, Potassium, Selenium, Sodium, Zinc.
Oil or fat*	**Fat quality** Anisidine value, Free fatty acids, Insoluble impurities, Iodine value, Peroxide value, Polymeric triglycerides, Unsaponifiable matter, Saponification value, Water, 12:0 Lauric acid, 14:0 Myristic acid, 14:1 n-5 Myristoleic acid, 15:0 Pentadecanoic acid, 16:0 Palmitic acid, 16:1 Palmitoleic acid, 17:0 Heptadecanoic acid, 18:0 Stearic acid, 18:1 cis-9 Oleic acid, 18:2 n-6 Linoleic acid, 18:3 n-3 Linolenic acid, 20:0 Eicosanoic arachidic acid, 20:1 Eicosenoic acid, 20:5 n-3 Eicosapentaenoic acid, 22:6 n-3 Docosahexaenoic acid.
Animal feed*	**Aflatoxins** Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Ochratoxin, Total aflatoxins.
Simulated animal feed	**Enumeration** Enterobacteriaceae, Total viable count, Yeast and Mould.
Simulated animal feed	**Detection** *Salmonella* species

*Not included in our scope of accreditation.

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