



CIEL Scoping Report

CIEL Report: Identify available former foodstuffs and co-products with potential for incorporation into monogastric diets within the UK

CONTEXT

The feed industry is looking for alternative raw materials to reduce reliance on crops which can be fed to humans, to valorise waste from the food industry, to enhance the concept of circularity within livestock systems, and therefore lower environmental impacts of animal production. The challenge is identifying the products most suitable for use in animal feed and feed mills. Assessment is needed of nutritional and anti-nutritional content, volumes, reliability of supply, cost, regulatory restrictions, ease of incorporation into feed manufacture and feeding systems, safety, and stability. At a later stage assessment of their palatability, impacts on product quality and on health and welfare will also be assessed. The focus for this project is non-ruminant livestock.

Existing information

There is existing information in the public domain and on-going projects in this area that need to be taken into account, including:

- Biorefining mapping project by Zero Waste Scotland has been completed for Scotland, can be used a starting point.
- Dutch models/papers on raw material & former food categories, circular agriculture approaches, assessing which are relevant for the UK
- FSA report due on the implications on alternative protein sources for livestock, including their safety and risks
- WWF-UK (2022) Hidden waste: The Roadmap to tracking and reducing food surplus and waste on UK farms
- Defra review
- WRAP projects

SCOPE

This **Scoping Report** relates to production of a review to inform UK feed companies on what formers foods are publicly available and any limitations to their use in animal feed.

It is expected that the reviewer will work with a group of nutritionists from CIEL membership to:

- Confirm requirements for quality, availability, cost, and suitability etc. for use in feed mills
- Set up a database of these information requirements

The reviewer will then source information to populate the database and provide a summary report. The reviewer will;

- Approach possible suppliers for information on new and novel raw materials.
- Assess suitability of different product sources for use in animal feed.
- Critically comment on available information in the public domain.

Guidance for authors

The report is intended for use initially by members of CIEL involved in the feed industry and researcher and will be available to the industry as a whole in due course.

REPORT SPECIFICATION

We wish to contract an organization that can liaise with the CIEL Nutrition lead and work with a group of nutritionists to deliver to the above requirements. They will:

1. Author and manage the project to deliver the information and will have experience in this field.
2. One organisation will be contracted to deliver the review to CIEL, but specialist help from leading academics or industry experts that can contribute critical expertise to cover breadth of the topic, can be brought in as required. Any sub-contracting of other experts will be the responsibility of the lead organisation.



3. Deliver to specification of the project in terms of breadth of coverage and have expert critical analysis.
4. Supply a draft of the report to CIEL for feedback from 2-3 CIEL nominated people.
5. CIEL reserves the right to edit text to use in industry communications but won't change key ideas in the report.