

"FEEDING FATS SAFETY" Project. Improving the use of feeding fats materials coming from by- or co-products from the food chain: a quality and safety approach



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Introduction

FEEDING FATS SAFETY is a 6th EC Framework Programme, with the participation of eight research teams, which started on January 2005. Its primary aim is to fit animal nutrition requirements with a high level of safety and quality of some types of meat production, on the basis of the use of fats coming from by- or co-products of the food chain. This aim must be adequate to consumer satisfaction and health demands, and with environmental protection. There is a lack of information about different aspects related to these fats, and the project wanted to answer to the following questions:

- > Are fat by- or co-products materials really safe for animal production?
- > What are the main chemical characteristic of these fats?
- > How contribute these fats to the global intake of contaminants (dioxines, PCB, PBDE, PAH) through the diet?
- > What are the suitable analytical controls to assess quality and safety of these fats?
- > Are consumers confident respect to these systems of meat production?
- > How standardisation and policy control of these fats could be improved?
- > Are these fats really available, useful and profitable for fat and feed producers?

Scientific Objectives

- > Assessment of the adequacy of the use as feedingstuffs of some fat materials recycled from the food chain. Nutritive value for the animal and productive parameters should be also assessed.
- > Assessment and quantification of repercussions of the use of these fats in animal feeds on the corresponding meat lipid composition and quality. Standards for lipid meat quality will also be assessed on the basis of the use of these feeding fats.
- > Assessment and quantification of the transfer rate of some undesirable products (fat degradation and contamination compounds) from these fats to the corresponding meat and other animal tissues and fluids. Levels of lipid oxidation induced in meat, other tissues and fluids will also be assessed.
- > Assessment of the effects on animal health induced by the presence and amount of some of these undesirable products.

Tecnological Objectives

- > Improvement of the level of standardisation of fat materials in order to get safer production systems and to get more reliable quality control standards.
- > Enhancement of the use of feed fats coming from recycled materials in order to decrease environmental charges.
- > Promotion of higher levels of quality and safety of meat production when recycled fat materials are used in animal feeding.
- > Design of methodological proposals for the analytical control of feed fats.
- > Characterization of fat materials applications according to different systems of animal production and meat production.
- > Improvement of the dissemination of knowledge in the use and control of these type of feed fats between producers.

Work plan

Deliverables

