

Action B5.

Deliverable B5.3. Economic evaluation of the produced feed, regarding pet food utilization



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<b>Partner:</b>	FUB (AUA, HMU, ESDAK)
<b>Title of Action :</b>	Evaluating the Produced Feed as Pet Food
<b>Deliverable B5.3:</b>	Economic evaluation of the produced feed, regarding pet food utilization



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<sup>1</sup> The date of the deliverable submission

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### 1. Introduction

Regarding an economic evaluation of the produced feed for dogs and cats, the value of dried food residues (DFR) strongly depends on its nutrient composition. In principle, DFR can provide a certain amount of energy, protein, fat, fibre and minerals.

### 2. Results

When the experimental diet with 5 % DFR is compared with the control diet without DFR, it can be concluded that:

- The protein source might be reduced by 1.5-2%
- The carbohydrate source might be reduced by 2 %
- The fat source might be reduced by 0.5-1 %
- The fibre source might be reduced by 0.2 %

in the diet with DFR to achieve a comparable dietary energy and nutrient composition as for the control diet. However, as mentioned above, this strongly depends on the composition of the DFR, which might differ between batches or depending on seasonal fluctuations.

The greatest savings are likely to come from the reduction in the quantities of protein-rich feed materials used. Assuming that the price for common protein sources is around 0.4-0.8 €/kg, the possible economic benefits of using DFR should be deducible. It is important that the recycled products are of a consistent quality, that the nutrient profile is kept constant and that the best hygiene is offered. Another aspect that should not be underestimated is that recycled products convey a positive image for companies and that they help to significantly improve the CO<sub>2</sub> balance of the manufactured products. This is particularly the case, since solar drying is an attractive process and significantly reduces the otherwise very high and energy-intensive drying costs. In this respect, we consider the potential of such products in the petfood industry to be extraordinarily high.

### 3. Summary

Regarding an economic evaluation of the produced feed, the value of DFR strongly depends on its nutrient composition. In principle, DFR can provide a certain amount of protein, fat, fibre or minerals.