



# Process for production of algae-enriched rapeseed based feed for pigs

## Macro Cascade -Project

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## Summary

The following report briefly (see D3.1 for a more detailed description) describes the process for production of algae-enriched rapeseed based feed for pigs, using a 2-step lacto-fermentation ensilaging method. Furthermore, compositional analyses and antioxidant assays of fermented and non-fermented material will be described. We identified and quantified several molecules of biological interest (e.g. amino acids, organic acids and phenolic compounds) in fermented rapeseed and seaweed material, as well as in non-fermented material (in some cases). The presence of e.g. 4-aminobutyric acid (GABA) and 3-phenyllactic acid in fermented rapeseed and seaweed indicates that the fermentation process induces the formation/release of beneficial compounds. Furthermore, we compared antioxidant activity in fermented and non-fermented material: the nonfermented material exhibits higher antioxidant activity than two out of three fermented batches.

## 4 ACKNOWLEDGEMENT

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