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Use of dried apple pomace in pigs diet



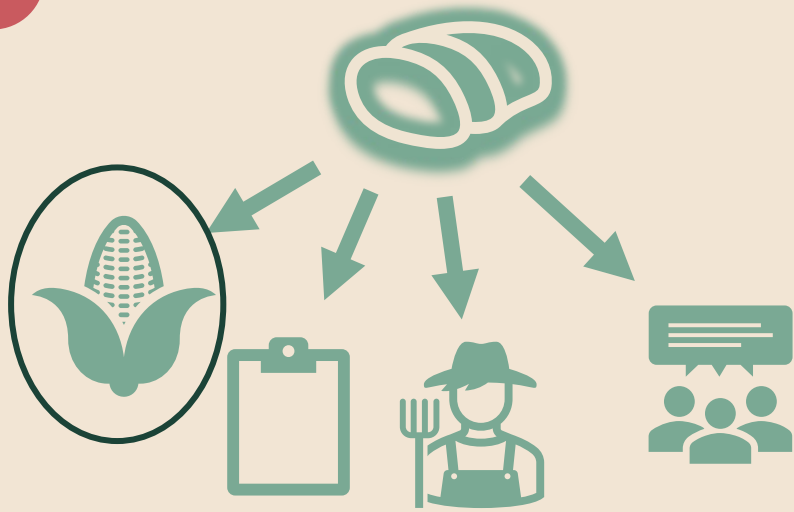
Dagmara Łodyga, M. Kasprowicz-Potocka,
A. Zaworska-Zakrzewska, A. Ludwiczak,
J. Składanowska-Baryza, E. Sell-Kubiak

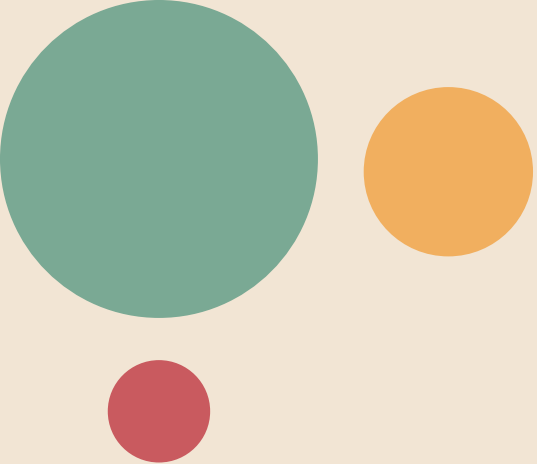


Funded by
the European Union

"This project has received funding from the European Union's Horizon 2020 Research And Innovation programme under Grant Agreement No 101000344".

„Linking extensive husbandry practices to the intrinsic quality of pork and broiler meat”





**What is apple pomace
and why do we use it in our study?**



95 mln t.



4.2 mln t.

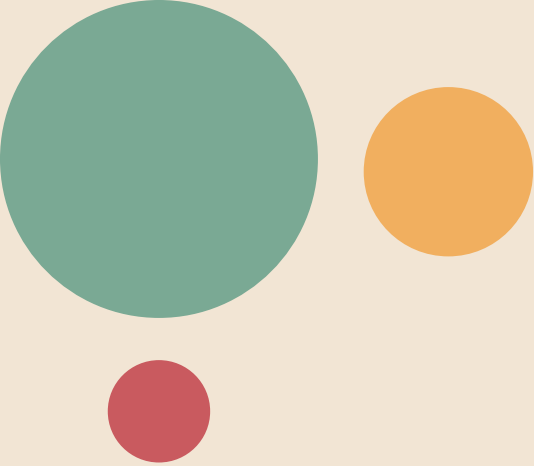


**10% - 35% of the mass of processed
raw material**



825,000 t. of waste!





Dried apple pomace

Skin and pulp 95%

Stems 1%

Seeds 4%

Fiber 60%

Protein 12%

Fat 5%

Vitamins

Carotenoids

Poliphenols



What is the aim of this study?

adding 4% apple pomace (AP) to the feed mixture

to examine the effect on animals:

fattening efficiency
post-slaughter parameters
quality of meat



Material and methods

60 pigs (30 per group, 15♀,15♂), hybrids



Control group (Control) - diet without AP;
Experimental group (AP) – diet with 4% AP



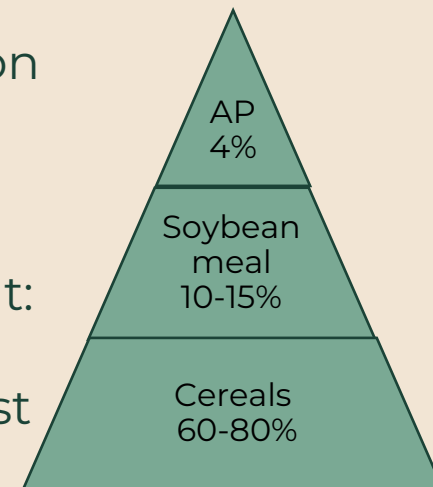
90 days of fattening period – fattening and slaughter parameters collected, feed conversion ratio was estimated base on individually body mass and mean feed intake per group;



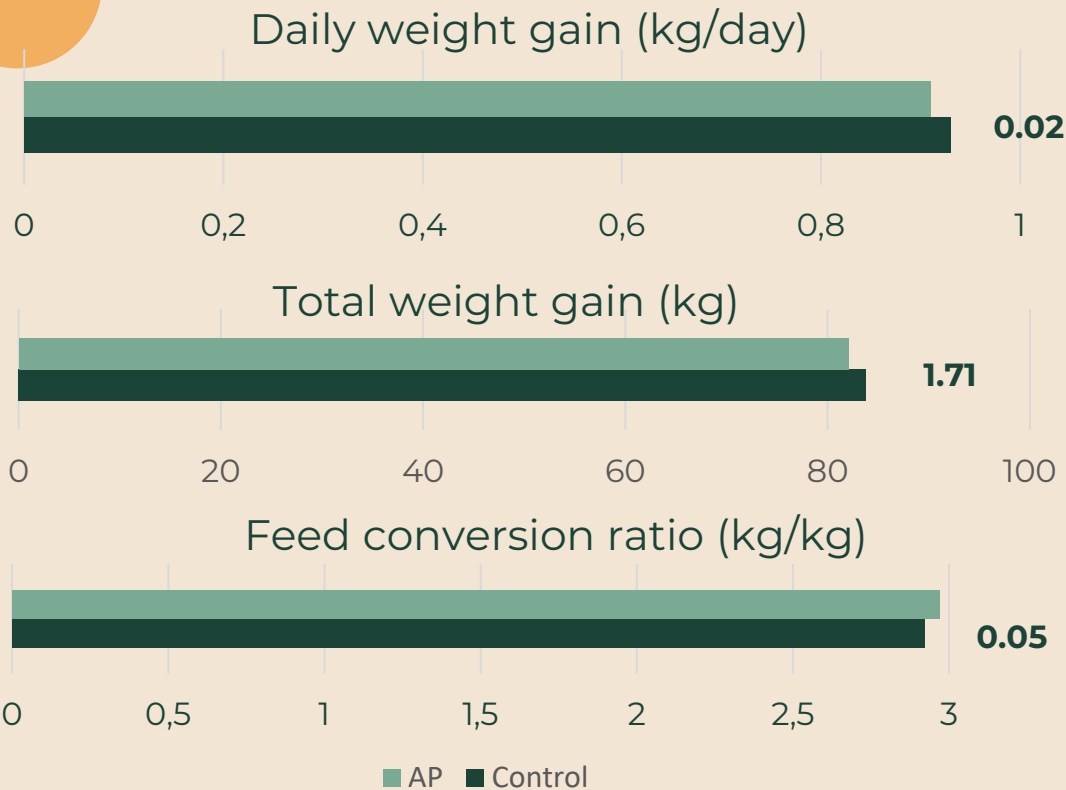
14 loins per group – laboratory analysis of meat: chemical composition and fatty acids composition, colour, texture, pH, drip loss; T-test



Feed mixture



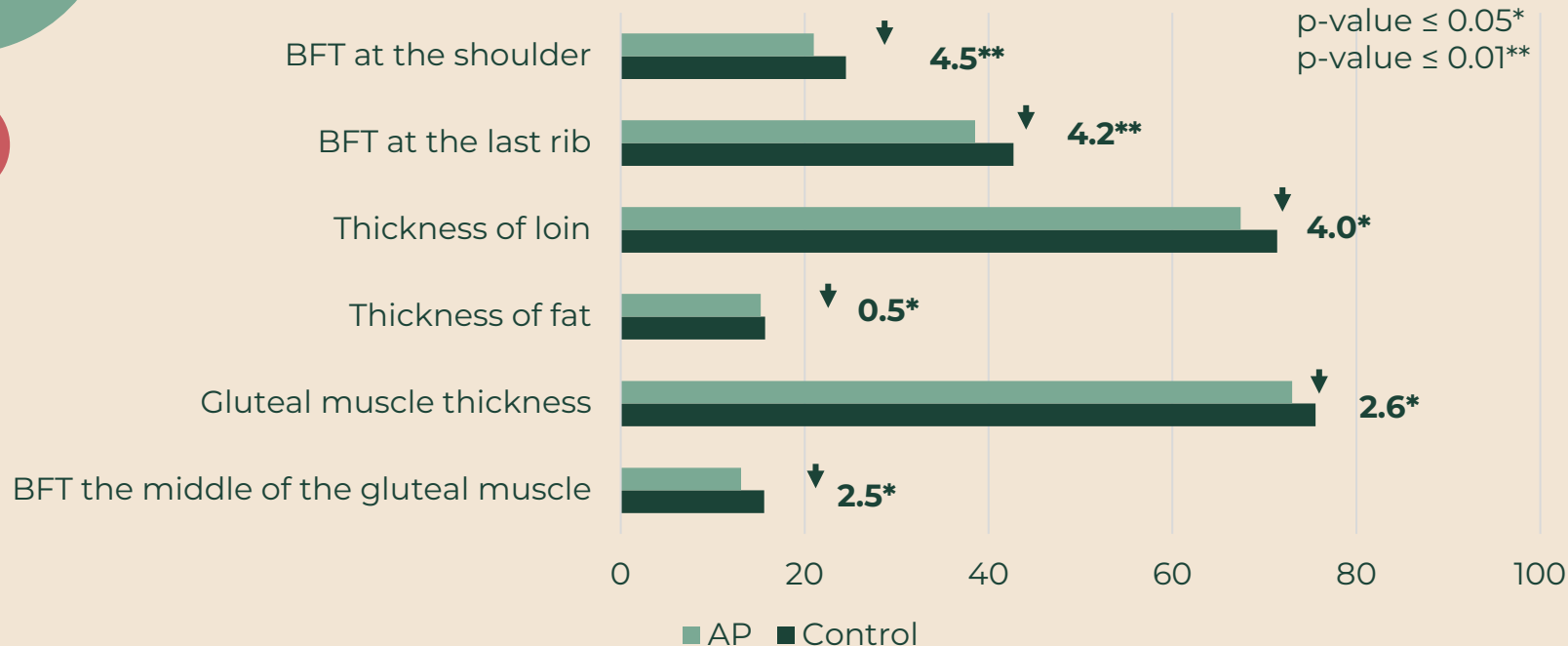
Fattening efficiency



NS

NS – no statistically significant differences

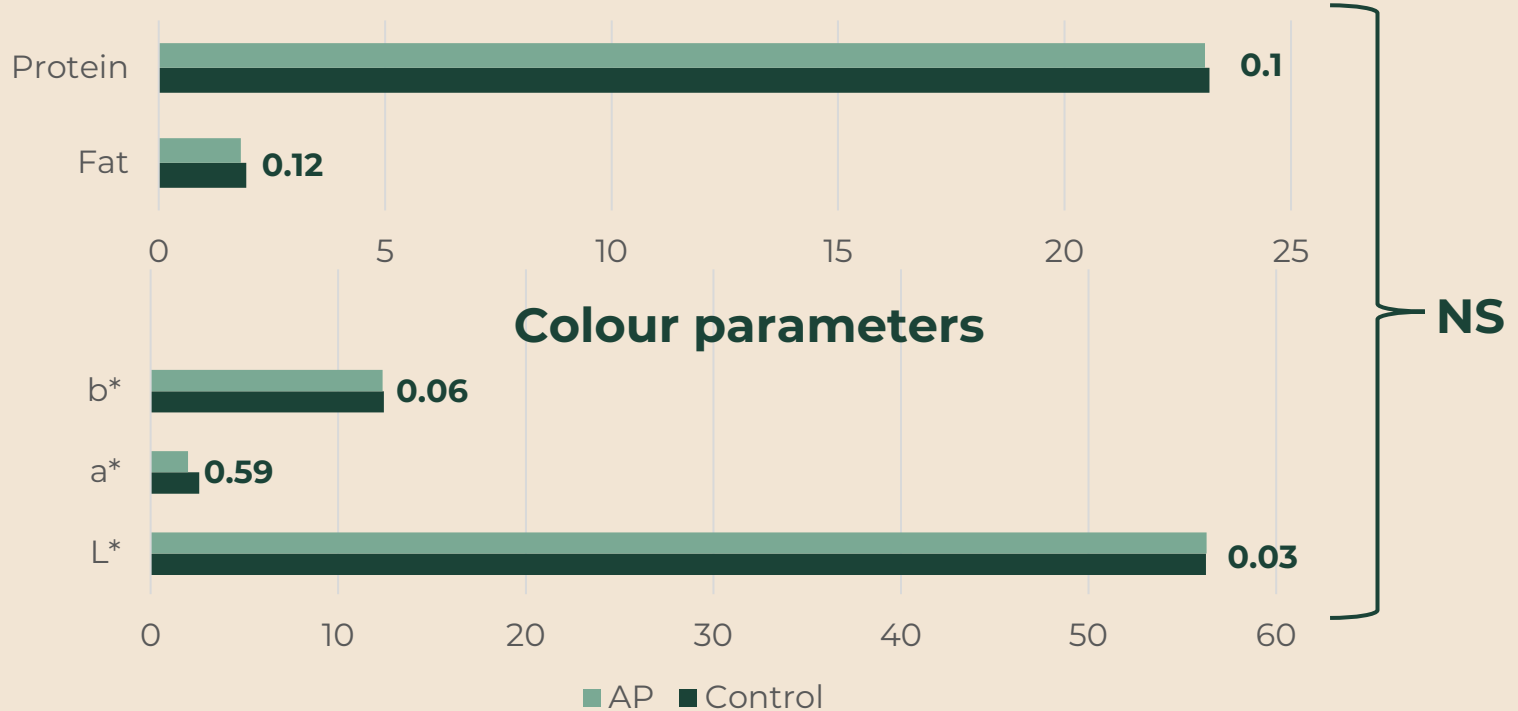
Slaughter parameters (mm)



BFT – Backfat thickness

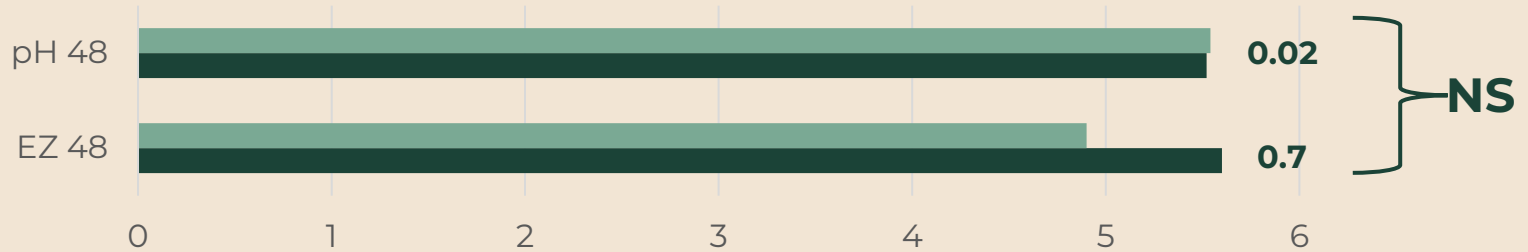
Meat quality

Chemical composition (%)



Meat quality

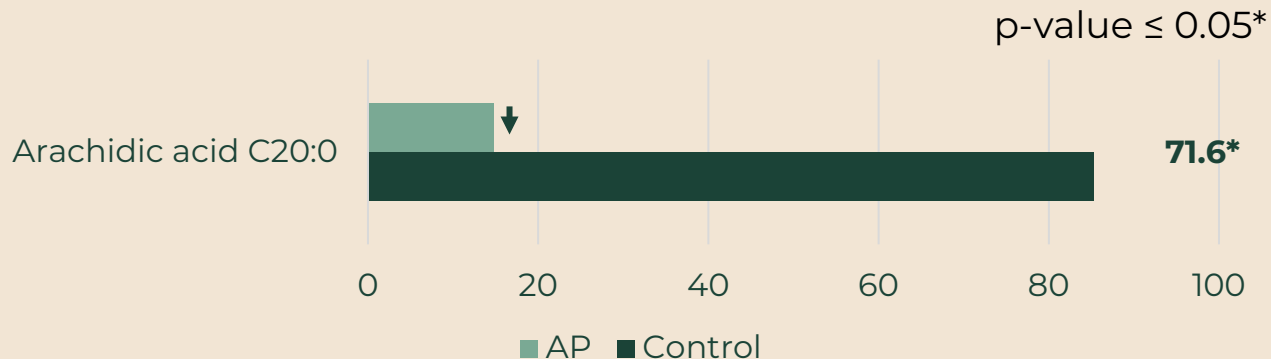
pH and EZ drip loss (%)



EZ DripLoss - a new method for the determination of drip loss in meat

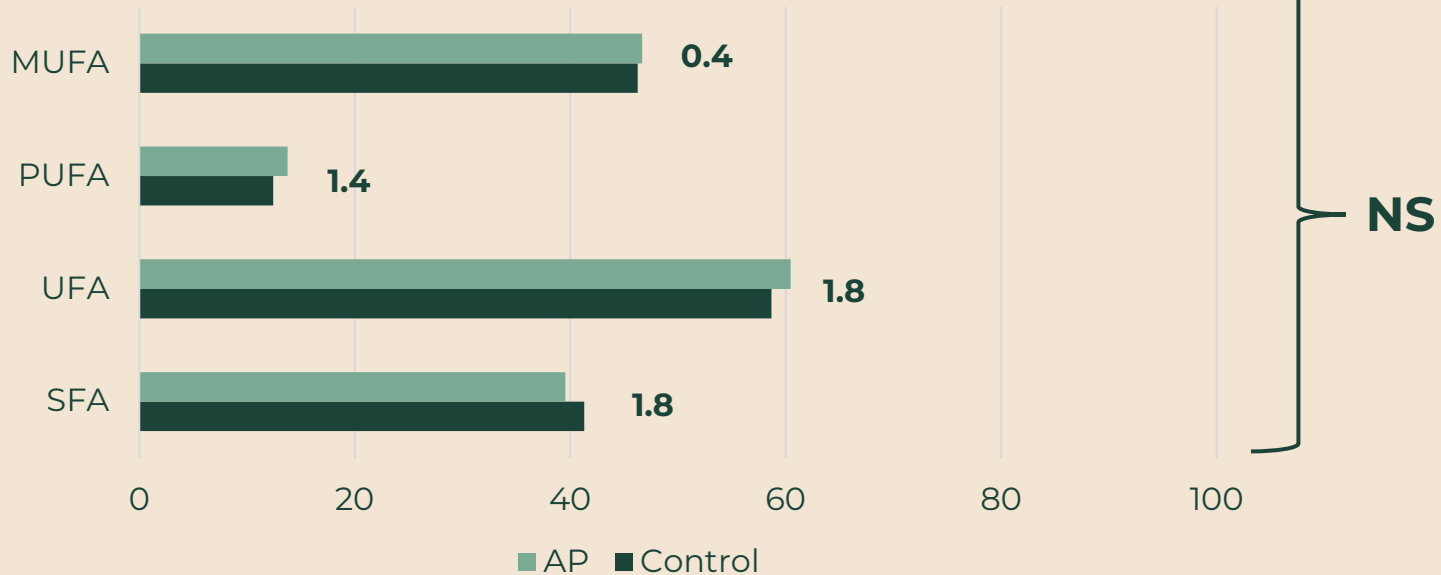
NS – no statistically significant differences

Fatty acids in meat (%)



Other fatty acids were not statistically significant differences between groups

Fatty acids in meat (%)



NS – no statistically significant differences

Conclusions

Dried apple pomace did not reduce production parameters and meat quality.

Potential as feed material in pigs diet.

Can be used in feed for fattening pigs.

Significantly influenced on the carcass characteristics





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Thank you for your attention!



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