



The Process

Extraction

Rapeseed oil is third in the league table of vegetable oils produced worldwide, after soya and palm oil. Vast quantities are produced in the highly industrial process of oil extraction. This involves heat treatment, crushing, and solvent extraction (hexane). This is a harsh but very efficient process and removes almost all of the oil from the seed.



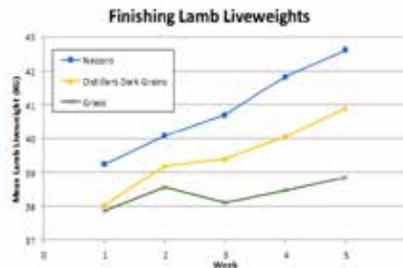
Expeller

The NEOS process relies on simply squeezing seeds to expel the oil. This has become the favoured method for producing high value cooking oils for the domestic market. This physical process is not as efficient as extraction, as a quarter of the oil remains in the seed, however, this provides a high energy alternative to conventional rapemeal (extracted). Friction in the press is the only source of heat in the process, and as this heat is transitory, the natural antioxidants and volatiles are unharmed, as demonstrated by the nutty flavours of cold pressed domestic oils.



Finishing Lamb Trial

An evaluation of NEOPRO was conducted by an Honours student at SRUC Aberdeen. The study included a trial of 150 finishing lambs on conventional Prime Lamb 2 containing distillers, compared to Prime Lamb 2 containing NEOPRO (50 lambs each). A third group were grazed with no supplementary feed offered. The results are presented below.



The liveweight gain between the two supplemented groups and the grazed lambs was highly significantly different, proving the clear benefits of feeding over simply grazing. The difference between the lambs on the two feeds was not statistically different but, as shown above, the NEOPRO fed lambs did gain more weight over the 5 week trial period.

Carcass weights and grading were monitored and fat class was not significantly different between the two feeds. The study concluded that NEOPRO is an effective feed for finishing lambs, providing at least the same nutritional benefit as distillers dark grains, supporting the existing scientific reports on the values of cold-pressed expeller rapemeal. NEOPRO gives us a reliable, local, secure source of high value protein and energy.



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NEOS

NORVITE EXPELLER OIL SEEDS

