

## TIPS FOR EFFECTIVE USE OF CANOLA MEAL



Formulating swine diets by canola meal according to standardized ileal digestibility of amino acids and net energy



Enzyme supplementation improves the nutritive value of canola meal for swine

Source: Adapted from Mejicanos et al., 2016.

## 2019 VALUES

\$4.3billion

CANOLA SEED

\$3.4billion

CANOLA OIL

\$1.7billion

CANOLA MEAL

\$9.3billion(CND)

TOTAL VALUE OF EXPORTS

Source: Adapted from Statistics Canada; Canadian Oilseed Processors Association

## UNIQUE BENEFITS OF CANOLA MEAL



Contains excellent amino acid profile and high level of fiber, which has an outstanding prebiotic effect on enhancing gut health and functions in piglets



15 - 30% inclusion level in pig diets has the potential to reduce the amount of nitrogen discharged to the environment



Has the potential to reduce bad odor from piglets

Sources: Adapted from Velayudhan and Nyachoti, 2017; Velayudhan et al., 2018.



# CANOLA MEAL AND SWINE NUTRITION

Next protein revolution for pigs.

### COMPONENT, % AVERAGE

Dry Matter	88
Crude Protein	36.7
Crude Fat	3.3
Ash	6.7
Calcium	0.65
Phosphorus	0.99
Crude Fiber	11.2
Dietary Fiber	32.4
Phytic Acid	2.3
Glucosinate (μ mol/g)	4.2

## CANOLA MEAL NUTRIENT COMPOSITION

Canola meal has an excellent amino acid profile and low levels of glucosinolates.

Source: Adapted from Canola Meal Feeding Guide, 2019. Table 1. p 8

## CANOLA MEAL INCLUSION LEVELS

Canola meal can be included in diets for pigs at all stages of production. The following inclusion levels are possible without affecting performance.

Sources: Adapted from Landero et al., 2012; Sanjayan et al., 2014; Brand et al., 2001; King, et al., 2001; Velayudhan et al., 2018; Velayudhan and Nyachoti, 2017.



## CANOLA MEAL PRODUCTION PROCESS

Canola meal is a co-product of canola oil processing. It is the second most widely traded protein supplement in the world after soybean meal. Canola meal is a good protein source for swine, poultry, cows and fish. Source: Adapted from Canola Council of Canada, 2020



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**DIG DEEPER!** Animal scientist doubly honoured for swine nutrition research

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