
Agrotop
Sowing Future
Feeds
Animal nutrition
CATALOG
www.empresasagrotop.com

About us

We are a leading Chilean company in the agribusiness sector, focused on collaborative work with more than 1,000 farmers from central and southern Chile. Our commitment is to deliver products of the highest quality to customers around the world.

We contribute to animal nutrition in the *bovine, porcine, poultry, caprine,* and *aquaculture* sectors, enabling them to feed their animals in the best possible way. We highlight our *canola meal*, derived from the production of canola oil, which has high nutritional value due to its protein content and amino acid profile.

Our **values**

Commitment

We are a company committed to our tasks and to the people who entrust us with responsibility.

Leadership

We are leaders in every field where we choose to play a role.

Trust

We are trustworthy for our business partners, clients, and suppliers.

Transparency

We are transparent with information, using it as a tool for decision-making and long-term relationships.

Innovation

We are innovative in everything we do, always seeking new and creative solutions to the challenges we face.

We nourish families around the world with healthy products from southern Chile

Canola

High-quality protein for animal feed

Natural source of protein

Rapeseed *(Brassica napus),* also known as canola, is an oilseed crop with growing global demand. It stands out for its derivatives —*mainly canola meal and canola oil*— which are valued for their high protein content, energy contribution, and balanced nutritional profile.

In Chile, it is one of the main annual crops, characterized by being non-genetically modified (NON-GMO) and by its low content of erucic acid (<2%) and glucosinolates (<30 umol/g). In addition to its nutritional value, it is a key crop in agricultural rotation, as it contributes to nutrient recovery, improves soil health, and supports pollination.

To obtain high-quality oil and meal, canola grain undergoes a *five-stage* process:

1. Pre-cleaning, drying, and storage of the grain
2. Thorough cleaning to *remove impurities*
3. *Cold mechanical pressing* of the conditioned grain, producing crude oil and canola expeller
4. *Hot mechanical pressing* of the conditioned expeller to extract additional oil
5. *Pro solvent extraction* of the oil remaining in the expeller obtained from the second pressing, *maximizing yield and concentrating the protein,* thus obtaining our canola meal

Finally, the product is desolventized, fully recovering the solvent used. Unlike other methods, we use processes designed to preserve protein quality by avoiding extreme temperatures. Our continuous production system ensures reliable supply throughout the year.

Canola meal

Canola meal is a byproduct of oil extraction from rapeseed, recognized worldwide as one of the most valuable plant-based protein sources for animal feed. Although not all of the oil is extracted, the residual oil content in the meal *provides higher metabolizable energy*, benefiting the nutrition of all types of species, including poultry, pigs, ruminants, and fish.

SALES FORMAT	
In bulk	
Bags 25 kg	
Big bags 1.200 kg	

Dry matter (min)	86%
Crude protein (min)	37%
Ether extract (max)	2%
Crude fiber (max)	16%
NSC (min)	27%
NDF (max)	28%
ADF (max)	20%
Metabolizable energy (min)	2,7 Mcal/kg

Caracteristics and benefits

- Non GMO*
- High protein content
- Balanced amino acid profile
- Rich in methionine
- Highly digestible protein
- Promotes milk production
- Promotes weight gain and growth during the rearing phase
- Economical source of protein
- Long shelf life

*On some occasions, we process grains of imported origin, which may be genetically modified (GMO).

Canola oil

Canola oil has positioned itself as one of the best alternatives in animal nutrition thanks to its fatty acid profile. Compared to other oils, it has a *low saturated fat content,* which supports the metabolic health of animals. It stands out for its high content of monounsaturated fatty acids and, especially, linolenic acid (omega-3), an essential nutrient that contributes to strengthening the immune system and improving the quality of animal-derived products such as milk, meat, and eggs.

Its profile has also made it a strategic option for *aquaculture,* where it is widely used in fish nutrition due to its balance between omega-6 and omega-3, promoting growth, feed efficiency, and meat quality. This combination differentiates it from traditional oils such as soybean, corn, or palm oil, providing higher nutritional value with better digestibility and energy efficiency.

SALES FORMAT

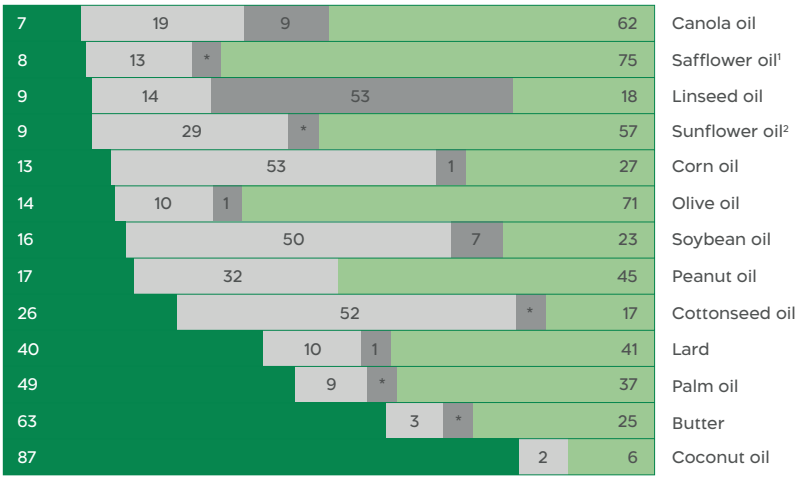
In bulk

Moisture / Impurities (min)	1,0%
Acidity (% Oleic acid) (max)	2,0%
Peroxice values	4 meqO2/kg de aceite
Erucic acid content	(C22:1) < 2,0%
Residual solvent	<50 ppm

*On some occasions, we process grains of imported origin, which may be genetically modified (GMO).

Fatty acid content

Expressed in g/100 g of fat



[1] High oleic
[2] Medium oleic
* Trace

POLYUNSATURATED FAT
SATURATED FAT
MONOUNSATURATED FAT

Linoleic acid Omega-6
Alpha-linoleic acid Omega-3
Oleic acid Omega-9

Corn

Essential energy base in
your animals nutrition

The best energy option

Corn *(Zea mays L.)* is one of the most important grains worldwide, recognized for its high energy content and excellent digestibility. Its contribution of starch, fats, proteins, and carotenoids makes it a fundamental ingredient for balanced and cost-effective animal diets.

In Chile, corn currently holds a strategic position in national agriculture due to its high yield per hectare, versatility, and importance as a base ingredient in compound feed formulations. Whether whole or ground, corn is a concentrated energy source for animals at all stages of production.

Corn is the *cereal grain with the highest energy value,* owing to its high starch and fat content. Its low fiber level contributes to a higher digestibility coefficient than other cereals such as barley or wheat, especially in monogastric animals. In addition, it is an important source of fats and carotenoids, providing nutrients such as vitamin A and xanthophylls, as well as mono- and dihydroxypigments that contribute to the natural color of chicken meat and egg yolks. Among its main characteristics are:

- **High energy source**
  Highly digestible starch
- **Ideal protein complement**
  Suitable for all species
- **Palatability**
  Flavor and texture that encourage intake
- **Versatile and nutritious**
  Provides uniformity in diet formulation
- **Low fiber**
  Ideal for poultry and swine diets
- **High carbohydrate and ether extract content**
  Promotes weight gain in cattle
- **Feed efficiency**
  Improves feed conversion in monogastric animals

Whole and ground corn

Corn is one of the most important ingredients in *concentrate formulations worldwide*, valued for its energy contribution and versatility. Grinding the grain facilitates nutrient absorption: in ruminants, an appropriate particle size increases starch fermentation in the rumen, while in pigs it allows for more efficient absorption without requiring complete mastication. Thanks to these characteristics, ground corn is positioned as an essential component in balanced diets with high nutritional value, aimed at maximizing productive performance.

SALES FORMAT

In bulk

Bags
25 kg

Dry matter (min)	86%
Crude protein (min)	7%
Ether extract (max)	4%
Crude fiber (max)	3%
NSC (min)	80%
NDF (max)	7%
ADF (max)	2%
Metabolizable energy (min)	3,3 Mcal/kg

2 mm.

4,5 mm.

8 mm.

10 mm.

Lupin

Plant-based protein and
energy in a single raw material

Essential protein source

Sweet lupin *(Lupinus albus)* is a legume that originated in the Mediterranean basin and is now successfully cultivated in southern Chile. For centuries, lupins were characterized by their bitterness and the presence of antinutritional alkaloids, which limited their use.

Thanks to genetic improvement, sweet lupin emerged free of these compounds, opening new opportunities in animal nutrition and local agriculture. Beyond its nutritional value, sweet lupin cultivation contributes to agricultural sustainability. As a legume, it fixes nitrogen in the soil, improves fertility, and supports more balanced crop rotations. This enhances productivity in southern Chilean fields and strengthens farmers' competitiveness. In addition to its productive benefits, it offers important nutritional and agronomic characteristics, including:

- **Concentrated, high-quality protein**
  Key ingredient in aquaculture diets
- **Complementary ingredient**
  For ruminants and monogastric animals
- **Sustainable crop**
  Enriches soils and improves agricultural systems
- **Domestic origin**
  Reduces dependence on imported inputs

Today, sweet lupin is emerging as a high-value product in animal nutrition, establishing itself as a grain of the future: nutritious, sustainable, and strategic for the growth of the Chilean agri-food chain.

Sweet
lupin grits

Sweet lupin grits are a product that concentrate the natural benefits of the grain in a clean and versatile format. Their *high protein content* and *digestibility* make them a high-value ingredient, especially in aquaculture, where diets must deliver the maximum amount of nutrients in the smallest possible volume.

While their most significant application is in fish feed, they can also be incorporated into ruminant and monogastric diets, complementing cereals with *protein* and *energy.*

Dry matter (min)	86%
Crude protein (min)	42%
Ether extract (max)	12%
Crude fiber (max)	5%
NSC (min)	33%
NDF (max)	8%
ADF (max)	4%
Metabolizable energy (min)	3,4 Mcal/kg

SALES FORMAT

Big bags
1.100 kg

Sweet **lupin hulls**

Sweet lupin hulls are obtained from the dehulling process of the lupin grain and are recognized for their *high content of digestible fiber*. Their inclusion in animal diets supports digestive health, stimulates rumen function, and contributes to improved feed efficiency.

In addition to being a natural source of energy from carbohydrates, they provide essential minerals and act as an ideal complement in balanced rations for cattle and other species. Their versatility makes them an excellent sustainable alternative.

Dry matter (min)	86%
Crude protein (min)	7%
Ether extract (max)	1%
Crude fiber (max)	49%
NSC (min)	9%
NDF (max)	80%
ADF (max)	60%
Metabolizable energy (min)	3,0 Mcal/kg

SALES FORMAT

Bags
25 kg

Big bags
300 kg

Oats

Highly digestible fiber and
energy for balanced nutrition

Complete and efficient nutrition

Oats are highly valued in animal nutrition due to their balanced content of energy and digestible fiber, as they contribute to productive performance and intestinal health across a wide range of species. Our oat by-products offer versatile solutions for cattle, poultry, pigs, and aquaculture species.

Oat hulls stand out for their high content of functional fiber, which promotes intestinal motility, rumen health, and overall digestive well-being. This by-product is ideal for diets that require greater structure and for animals in growth or maintenance stages.

Forage oats provide highly digestible energy thanks to their content of non-structural carbohydrates, making them a reliable resource to optimize feed conversion and support the development of cattle, poultry, and pigs. In addition, their versatility allows their use in different types of diets, ranging from forage-based rations to concentrate mixes.

Dehulled oats, in turn, offer a more concentrated nutritional profile, with greater nutrient availability and lower insoluble fiber content, making them strategic for formulations aimed at maximizing energy and protein efficiency. Their inclusion improves weight gain, milk production, and meat quality, ensuring a balanced supply of essential nutrients.

Our oat by-products combine *quality, versatility,* and *digestibility*, enabling the formulation of balanced rations that increase productive efficiency and promote sustainable nutrition. They are a reliable tool to ensure that each species receives the nutrients required for optimal development, from feeding cattle and monogastric animals to their use as high-quality raw materials in pet food and aquaculture feed manufacturing.

Oat hulls

Oat hulls are obtained during the processing of dehulled and stabilized oats. They are mainly composed of the outer coverings of the grain, along with a mixture of fine particles, oat dust, and some small kernels. They are widely used as a natural source of insoluble fiber, ideal for improving digestive health and supporting proper intestinal function. Their inclusion in rations allows feed volume to be increased without significantly raising caloric intake.

Dry matter (min)	91%
Crude protein (min)	6%
Ether extract (max)	2%
Crude fiber (max)	24%
NSC (min)	23%
NDF (max)	61%
ADF (max)	32%
Metabolizable energy (min)	1,4 Mcal/kg

SALES FORMAT

In bulk

Forage oats

Forage oats are obtained through a rigorous grain *size selection process* from oats intended for the production of dehulled and stabilized oats for human consumption. This by-product retains high nutritional value, standing out for its energy contribution, digestible fiber content, and quality proteins, making it a strategic ingredient for animal feed.

Dry matter (min)	86%
Crude protein (min)	12%
Ether extract (max)	7%
Crude fiber (max)	10%
NSC (min)	53%
NDF (max)	26%
ADF (max)	12%
Metabolizable energy (min)	2,7 Mcal/kg

SALES FORMAT

Big bags
Variable weight

Dehulled oats

It is obtained from the processing aimed at producing dehulled and stabilized oats for human consumption. However, due to its color it does not meet the standards for human consumption. This product is highly valued in animal nutrition thanks to its lower fiber content and its good supply of energy, proteins, vitamins, and minerals, making it a nutritious and efficient ingredient for balanced diets.

Dry matter (min)	86%
Crude protein (min)	13%
Ether extract (max)	8%
Crude fiber (max)	2%
NSC (min)	72%
NDF (max)	13%
ADF (max)	3%
Metabolizable energy (min)	3,3 Mcal/kg

SALES FORMAT

Big bags
Variable weight

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