

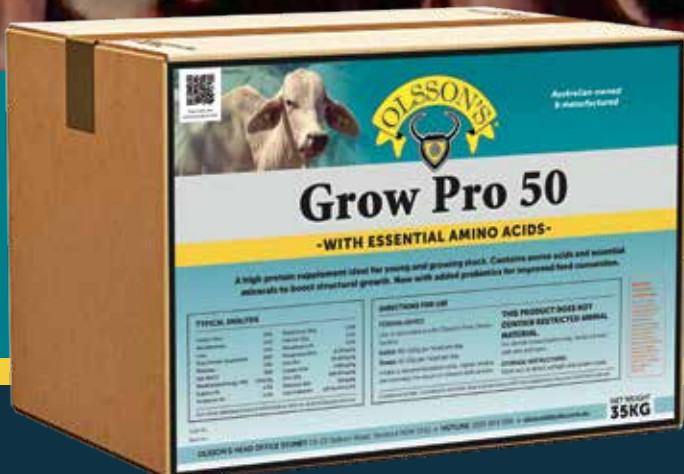


**NEW
IMPROVED
FORMULA**

Now with added amino acids & live probiotics for improved feed conversion!

GROW PRO 50

with essential amino acids



A high protein block for young stock containing amino acids & essential minerals to boost structural growth

GROW PRO 50

AVAILABLE IN 35, 85 & 110KG BLOCKS



A high protein block for young stock containing amino acids, essential minerals & live probiotics to boost structural growth



Olsson's Grow Pro 50 is a high protein block to assist with the rumen development of young calves and lambs. It contains essential minerals & microprotein blend, a stable and easily digestible source of protein produced through the microbial fermentation of natural raw materials such as raw sugar and beet molasses. Now with added probiotics for improved feed conversion.

Grow Pro 50 is ideal for weaners, breeders and finishers.

Warning: Products containing urea can be toxic to livestock. Please ensure proper farm management practices are employed.

DIRECTIONS FOR USE	TYPICAL ANALYSIS			
Sheep/Goats: 10-15g per head per day	Protein Meal	20%	Magnesium (Mg)	0.9%
Cattle: 80-150g per head per day	Microproteins	20%	Calcium (Ca)	2.5%
	Urea	10%	Phosphorus (P)	0.5%
	Total Protein Equivalents	50%	Manganese (Mn)	6.18mg/kg
	Molasses	7.5%	Iron (Fe)	18.45mg/kg
	Salt (NaCl)	36%	Copper (Co)	0.83mg/kg
	Metabolised Energy (ME)	12mj/kg	Zinc (Zn)	188.87mg/kg
	Sulphur (S)	2.5%	Selenium (Se)	26mg/kg
	Potassium (K)	0.4%	Live Probiotics	10 ⁹ cfu/ml (1.3%)

The benefits of amino acids:

Grow Pro 50 combines a balanced array of urea, trace elements and minerals with added natural and easily digestible microproteins.

Microproteins are single cell proteins, meaning they are made up of edible unicellular micro organisms. It is a fermented bio mass of dry matter, bacteria, yeast, fungi and algae. This is a highly digestible protein source that supports gastrointestinal function and animal growth. The majority of the protein is rumen bypass, which get delivered to the intestine where it can be absorbed directly as an energy source. As young/early weaned calves have underdeveloped rumens, the microproteins provide a safe and supportive protein source for young stock.

The microproteins contain 17 amino acids, which assist with growth, lactation, immune function and fertility. It also contains the 5 most important amino acids for digesting roughage. For weaners, the most important amino acids are methionine, lysine, isoleucine, threonine and leucine. Methionine, for example, serves as a constituent of skeletal muscle protein, as well as optimises the development of digestive tract and growth performance. Lysine also optimises animal growth performance, as well as synthesises muscle proteins, and aids in calcium resorption, while isoleucine optimises glucose uptake and energy efficiency in intestine and muscle. The table below shows the % of each of the amino acids contained in the microprotein blend.

A deficiency in any of these amino acids results in a slowing of growth and delayed onset of maturity. Amino acids also help increase metabolic functions, immune response and maintenance. Amino acids are critical for livestock growth and overall well-being.

Amino acid (%) in the microprotein blend			
Lysine	4.12%	Methionine	1.58%
Aspartic acid	7.19%	Isoleucine	3.24%
Threonine	3.16%	Leucine	5.76%
Serine	2.52%	Tyrosine	1.60%
Glutamic acid	8.11%	Phenylalanine	3.27%
Glycine	3.64%	Histidine	2.58%
Alanine	5.88%	Arginine	4.38%
Cystine	0.02%	Proline	2.02%
Valine	3.60%		
Total amino acid percentage			62.63%



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