

An alternative protein for use in swine, poultry, dairy, aqua, and companion animals.



A high protein feed ingredient created for animals today and into the future. This **50% protein product** provides highly bioavailable amino acids and minerals. **ALTIPRO™** is an innovative alternative fermented corn protein technology made for today's successful production operations.

The more ingredients we have to formulate animal diets, the more resilient animal agriculture becomes. **ALTIPRO™** adds one more tool for producers, nutritionists, and formulators to use in building nutritional excellence.

Our new ingredient is available, produced at scale, consistent, and economically feasible for animal diets.

Product Application

An alternative protein for use in swine, poultry, dairy, aqua, and companion animals.

Efficacy Studies

Studies in swine and poultry have demonstrated that **ALTIPRO™** can be formulated into diets at 10-15% inclusion by reducing corn, soybean meal, or other higher priced ingredients safely and effectively without changing animal performance.

Studies in shrimp, tilapia, salmon, and trout, have demonstrated that **ALTIPRO™** can effectively displace 12 – 20% of the dietary protein sources depending on the aqua species.

Ingredient Comparison

Source	DM (%)	Protein (%)	Fat (%)	Fiber (%)	Ash (%)	Lysine (%)	Meth (%)	Gross Energy (Kcal/kg)
ALTIPRO™	100	55.18	4.7	6.6	2.1	1.9	1.15	5568
Corn	100	8.8	4.1	2.6	1.4	0.3	0.21	4919
DDGS	100	30.7	3.4	10.6	5.9	0.8	0.55	5283
Soybean Meal 46.5	100	51.4	1.9	7.2	7.4	3.0	0.65	5204
Soybean Protein Concentrate	100	84.4	2.5	1.3	4.6	5.2	0.87	5280
Poultry By-Product Meal	100	57.6	20.6	1.1	15.6	2.6	0.81	5411
Canola Meal	100	38.1	2.4	14.3	7.6	2.0	0.67	5102

* Values are averaged from multiple sources.



AltPro™ supports small, family-owned farms across the United States

PRODUCT SPECIFICATIONS

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Benefits with ALTIPRO™

1. Amino acids that make up the protein in ALTIPRO™ are **more digestible** than DDG (84.3% vs 77.2%) and within 1.5% of soybean meal digestibility (85.7%).¹
2. ALTIPRO™ provides **more energy** for monogastric animals than soybean meal (TMEn, 2642 vs 2395 kcal/kg).¹
3. ALTIPRO™ **has improved safety**. No pathogens or anti-nutritional factors as found in meat or soy ingredients.
4. **Better product quality**. Nutrients will not be damaged by high heat processing to control pathogens or anti-nutritional factors.
5. **100% vegetarian** with no added synthetic compounds.
6. **Product flow** is excellent.

ALTIPRO™ can safely and effectively replace soy, meat by-product meals, and other higher priced ingredients in swine, poultry, dairy, aquaculture, or companion animal diets.

Yeast

Yeast is a rich source of cell wall polysaccharides, protein, vitamins, and energy providing functional benefits such as improved gut health for animals.

¹Hy-line rooster study Univ. Georgia Oct. 2022.



Amino Acid and Energy Digestibility

Amino Acid	93.7 DM (%)	Average Digestibility (%)
Cysteine	1.01	0.77
Methionine	1.15	0.90
Lysine	1.92	0.79
Alanine	3.68	0.88
Aspartic Acid	3.68	0.82
Glutamic Acid	8.76	0.91
Glycine	1.94	0.55
Isoleucine	2.27	0.84
Leucine	6.35	0.91
Proline	4.11	0.89
Threonine	2.04	0.80
Valine	2.77	0.85
Arginine	2.30	0.90
Histidine	1.37	0.86
Phenylalanine	2.76	0.88
Serine	2.48	0.86
Tyrosine	2.17	0.90
Tryptophan	0.43	0.87
GE	5215 kcal/kg	
TME (poultry)	2642 kcal/kg	

Micro-Nutrients and Yeast Data

Calcium	%	0.04
Sodium	%	0.03
Potassium	%	0.25
Magnesium	%	0.10
Sulfur	%	0.55
Phosphorus	%	0.37
Copper	mg/kg	5.6
Manganese	mg/kg	5.1
Zinc	mg/kg	54
Carotenoids	µg/g	53
Zeaxanthins	µg/g	21.2
Lutein	µg/g	18.1
Yeast	%	30 - 33
Mannans	%	6 - 7

Physical Characteristics

Density	lbs/cu ft	44 - 45
Flowability: angle of repose*		30 - 35

*Efficient flow below 40



 **ALTIPRO**™