

# TRITURO<sup>®</sup>



Obtained by a 100% mechanical process, this soybean meal combines consistency and performances for your rations.



Soybean processor

**Soya Excel**



## Optimized formula

### Typical analysis

	As received	100% DM
Dry Matter (DM) - %	93.2	100
Moisture - %	6.8	0
<b>Crude protein (CP) - %</b>	<b>43.24</b>	<b>46.39</b>
Soluble Protein - % CP	18.11	
Undegradable protein - % CP	51.71	
Crude fat - %	6.52	7
Fat after acid hydrolysis - %	7.28	7.81
Crude Fiber - %	5.82	6.24
Acid Detergent Fiber (ADF) - %	7.74	8.31
Neutral Detergent Fiber (NDF) - %	10.31	11.06
AD-ICP - % CP	0.98	
ND-ICP - % CP	2.14	
ADL - % NDF	11.12	
ADL - %	1.15	1.23
Ash - %	6.05	6.49
Starch - %	1.27	1.36
Water Soluble Sugars - %	18.8	20.15
Soluble protein (KOH) - %	79.75	
Urease - Δ pH Unit	0.03	
Trypsin Inhibitor Activity - mg/g	4.89	5.25
NSC (Non-Structural Carbohydrates) - %	20.1	21.5
NFC (Non-Fiber Carbohydrates) - %	27.9	29.9
<b>Gross Energy Calculated (INRA) - Kcal/kg</b>	<b>4578</b>	<b>4912</b>
AME Poultry (CRSAD 2019) - Kcal/kg	3339	3583
AMEn Poultry (CRSAD 2019) - Kcal/kg	3158	3388
AME Poultry/GE Inra - %	72.9	
AMEn Poultry/GE Inra - %	69.0	
Swine Energy digestibility (Research review) - %	89.1	
ME/DE Swine (Research review) - %	94.8	
DE Swine Review - Kcal/kg	4078	4375
ME Swine Review - Kcal/kg	3866	4148
NE Swine Inra - kcal/kg	2533	2718
TDN calculated* - %	80.90	86.80
NEI 3X Calculated - Mcal/kg	2.16	2.32
NEg 3X Calculated* - Mcal/kg	1.60	1.72
NEm 3X Calculated* - Mcal/kg	2.27	2.44
Particulate size XL - μm	1000-1250	
Particulate size Fine - μm	850-1050	

### Amino acids

	As received	100% DM	AID Swine***	SID Swine***	SID Poultry****
Crude protein digestibility (CP) - %			<b>79.6</b>	<b>90.8</b>	<b>88.0</b>
Total Amino Acids** - %	43.56	46.74			
Cystine (CYS) - %	0.62	0.67	78.4	85.4	81.1
Methionine (MET) - %	0.54	0.58	89.0	93.3	92.5
Methionine and Cysteine (M&C) - %	1.17	1.25	83.3	89.1	86.4
Lysine (LYS) - %	2.85	3.05	88.3	91.4	88.9
Alanine (ALA) - %	1.89	2.03	82.6	89.6	87.5
Aspartic Acid (ASP) - %	4.84	5.19	86.6	89.1	87.7
Glutamic Acid (GLU) - %	7.95	8.53	90.2	92.2	91.6
Glycine (GLY) - %	1.86	1.99	70.9	96.8	77.8
Isoleucine (ILE) - %	2.10	2.25	88.5	91.7	90.1
Leucine (LEU) - %	3.41	3.66	87.6	91.2	89.8
Proline (PRO) - %	2.33	2.50	68.7	151.2	88.6
Threonine (THR) - %	1.72	1.85	79.2	87.5	87.0
Valine (VAL) - %	2.13	2.29	85.0	89.8	90.1
Arginine (ARG) - %	3.14	3.37	92.7	97.7	91.5
Histidine (HIS) - %	1.22	1.31	88.5	92.5	89.6
Phenylalanine (PHE) - %	2.20	2.36	88.7	92.0	94.1
Serine (SER) - %	1.94	2.09	84.5	91.6	88.2
Tyrosine (TYR) - %	1.63	1.75	85.7	95.0	87.4
Tryptophan (TRP) - %	0.56	0.60	87.8	93.7	95.4

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### Minerals

	As received	100% DM
Calcium (Ca) - %	0.32	0.34
Swine Apparent Digestibility of Ca***** - % of Ca	61.3	
Phosphorus (P) - %	0.72	0.77
Swine Apparent Digestibility of P***** - % of P	55.2	
Swine Standardized Digestibility of P***** - % of P	61.3	
Non-Phytate P***** - % of P	36.4	
Sodium (Na) - %	0.04	0.04
Potassium (K) - %	2.39	2.56
Magnesium (Mg) - %	0.32	0.34
Sulfur (S) - %	0.39	0.42
Iron (Fe) - ppm	167	179
Zinc (Zn) - ppm	40	43
Copper (Cu) - ppm	10	11
Manganese (Mn) - ppm	15	16
Boron (Bo) - ppm	29	31
Aluminium (Al) - ppm	74	79

### Guaranteed analysis

	As received
Dry Matter (DM) - % MIN	88.00
Humidity - % MAX	12.00
Crude Protein (CP) - % MIN	43.50
Crude Fat - % MIN	4.00
Crude Fiber - % MAX	7.00

\* TDN : Total Digestible Nutrients, Calculations based on method proposed in NRC 2001

\*\* Adapted from amino acid analyzes of Trituro for the period 2024-2025 - ESCL Missouri (University of Missouri Agricultural Experiment Station Chemical Laboratories)

\*\*\* AID Swine : Apparent Ileal Digestibility Swine/SID Porc : Standardized Ileal Digestibility Swine; Rodriguez et al. 2020; Cristobal et al. 2025; Woodworth et al. 2001

\*\*\*\* SID Poultry : Standardized Ileal Digestibility Poultry

Cristobal et al. 2025; Bandegan et al. 2010

\*\*\*\*\* Cristobal et al. 2025



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