

PROTIGRAIN®

Rich in protein and energy

ProtiGrain® is rich in proteins and important nutrients. We always pay attention to the highest quality – in raw materials, processing and composition.



Consistent quality – since 2005

Produced from European wheat, maize and barley, with extensive quality assurance measures and highest quality standards.



High-quality grain protein

ProtiGrain® contains cereal protein with a high proportion of 60% of rumen undegradable protein (UDP).

Method from Licitra et al. 1996



High digestibility due to gentle drying procedure

Optimal protein utilisation due to gentle, homogeneous drying with tube bundle dryers at approx. 100 °C.



Constant energy release reduces risk of acidosis

Protein and carbohydrate supplier in the ration calculation. The higher proportion of long-chain carbohydrates compared to cereals is energetically very well available, especially in cattle feeding, with simultaneously less risk of acidosis.



More than protein

Contains valuable ingredients from yeast cells, a high proportion of neutral detergent fibre (NDF) and important amino acids and minerals.



GMO free!

Pelletized (6 mm) feed material with no labelling provisions, in "VLOG-tested" quality with good transport and storage suitability.



Good feed intake

Daily feeding practice and numerous feeding trials show excellent acceptance in feed intake.



An important contribution to the European protein supply!

Comparison of the nutrient matrices of ProtiGrain® and rapeseed extraction meal

		ProtiGrain® *		Rapeseed extraction meal **	
	Unit	FM	DM	FM	DM
Dry matter (DM)	%	91	100	88.9	100
Crude nutrients					
Crude ash (XA)	g/kg	51	56	67	75
Crude protein (XP)	g/kg	288	316	344	387
Crude fibre (XF)	g/kg	69	76	121	136
Crude fat (XL)	g/kg	78	86	32	36
Sugar (XZ)	g/kg	48	52	80	90
Starch (XS)	g/kg	24	26	30	34
Feed value					
Metabolisable energy (ME) Pig	MJ/kg	11.6	12.8	10.0	11.3
Metabolisable energy (ME) Cattle	MJ/kg	11.4	12.5	10.6	11.9
Net energy of lactation (NEL)	MJ/kg	6.9	7.6	6.4	7.2
Feed unit milk (FUM)	per kg	976	1072	879	989
Usable crude protein (nXP) Cattle	g/kg	223	245	227	255
Ruminal nitrogen balance (RNB)	g/kg	10.3	11.4	19.8	22.3
In the rumen undegradable dietary protein (UDP 5) ***	%	60	60	35	35
Acid detergent fibre, ash-free (ADF _{OM})	g/kg	148	162	187	210
Neutral detergent fibre, ash-free (NDF _{OM})	g/kg	381	419	254	286
Acid detergent lignin (ADL)	g/kg	68	74	74	83
Gas formation	ml/200 mg	43	47	-	-
Enzyme-soluble org. matter (ESOM)	g/kg	731	803	-	-
Amino acids					
Lysine	%	0.66	0.73	1.89	2.13
Methionine	%	0.47	0.52	0.69	0.78
Cystine	%	0.56	0.62	0.86	0.97
Threonine	%	0.96	1.05	1.51	1.70
Tryptophan	%	0.29	0.32	0.45	0.51
Minerals					
Calcium	g/kg	0.8	0.9	7.8	8.8
Phosphorus	g/kg	7.3	8.1	10.5	11.8
Magnesium	g/kg	2.8	3.1	4.1	4.6
Potassium	g/kg	12.7	14.0	12.8	14.4
Sodium	g/kg	4.0	4.4	0.4	0.45
Chlorine	g/kg	2.1	2.3	0.4	0.45
<p>* Mean value from CropEnergies Monitoring. The given values are non-binding guidance values and are subject to natural fluctuations in the raw material.</p> <p>** Source: CVB, UFOP</p> <p>*** in % of the total crude protein at 5% ruminal passage rate per hour (method according to Licitra et al., 1996)</p> <p>DM = Dry matter, FM = Fresh matter</p>					