



PROTEMEAL™

SUNFLOWER PROTEIN
CONCENTRATE

PRODUCT DATA

PROTEMEAL™ - sunflower protein concentrate with increased level of pureprotein. **PROTEMEAL™** is characterized by high metabolic energy combined with absolute safety for animals: product has neither GMO, nor antinutritive factors and demonstrates low bacterial load. Low fiber content results in high protein digestibility, while protein content goes beyond the figure for alternative feed components. The product is designed for protein supplementation in pigs, broilers, cattle and aquaculture diets.

Content, %:

CrudeProtein	82 (a.d.m.)
NFE	6,1
Moisture	6
CrudeAsh	6,56
CrudeFibre	<0,5
CrudeFat	1,4
Sugar	3,7

AuxillariesData

Pesticides, mg/kg	<0,001
Aflatoxin, mg/kg	<0,001
Stachyose,%	<0,1
Raffinose, %	<0,3
Starch,%	2,59
Water binding capacity	1:3
Density, g/cc	0,4

Essential amino acids

	<i>g/100 g</i>	<i>% of CP</i>
Lysine	5,0	6,10
Methionine	1,42	1,73
Cistine	1,13	1,38
Threonine	2,45	2,99
Thryptophane	1,19	1,45
Arginine	6,51	7,94
Leucine	4,61	5,62
Isoleucine	3,12	3,80
Phenylalanine	3,88	4,73
Tyrosine	1,90	2,32
Valine	3,80	4,63
Histidine	2,05	2,50

CP – crudeprotein

Heavymetals (mg/kg)*:

*not more, than allowed by standards, i.e.

Arsenic	<1
Lead	<1
Cadmium	<0,2
Mercury	<0,03

Minerals:

Potassium (K)	1,15%
Phosphorus(P)	0,48 %
Calcium (Ca)	0,11%
Salt (NaCl)	0,11%
Magnesium (Mg)	0,20%
Iron (Fe)	129 mg/kg
Selenium (Se)	0.16 mg/kg
Copper (Cu)	39,6 mg/kg

Microbiology*

MesophilicAerobicand FacultativeAnaerobic Microorganisms	2x10 ³
CGB, in 0.1 g of the product	Notdetected
S. aureusin 0.1 g	Notdetected
Sulfite-reducingclostridia in 1.0 g oftheproduct	Notdetected
Yeast&Moulds	Notdetected
PatogenicMicroorganism (inclSalmonela) in 25 g	Notdetected

FeedOptimizationtable

PROTEMEAL™ NUTRIENT COMPOSITION					
DryMatter	%	94	Metabolizable energy, Broilers	Kkal/100 g	328,4
Crude Protein (N x 6,25;a.d.m.)	%	82,0	Metabolizable energy, Piglets	MJ/kg	14,74
Crude fat	%	1,4	(Ca)	g/kg	1,4
Crudefibre	%	<0,5	(P)	g/kg	6,3
CrudeAsh	%	6,56	(K)	g/kg	10,4
Sugars	%	3,7	(NaCl)	g/kg	1,1
Linoleicacid	%	1,12	(Mg)	g/kg	2,8
NFE	%	6,1	(Fe)	mg/kg	99
Proteindigestibility (AFD)	%	95,0	(Se)	mg/kg	0.16
Ilealdigestibility (AID)	%	83,9	Carotene	mg/kg	75
PROTEMEAL™ AMINO ACID PROFILE					
		Content	IlealDigestibility (AID)	StandardIleal Digestibility (SID)	
Arginine	%	6,51	91,6	92,1	
Lysine	%	5,0	86,0	87,7	
Methionine	%	1,42	88,1	88,7	
Cystine	%	1,13	73,8	76,1	
Methionine + Cystine	%	2,55	80,95	82,4	
Threonine	%	2,45	82,0	83,9	
Thryptophane	%	1,19	-	-	
Leucine	%	4,61	84,7	85,5	
Isoleucine	%	3,12	82,2	83,2	
Phenylalanine	%	3,88	84,9	85,5	
Tyrosine	%	1,90	88,7	90,0	
Valine	%	3,80	80,7	81,8	
Histidine	%	2,05	81,5	82,3	
Serine	%	3,01	82,2	84,7	
Alanine	%	2,42	84,5	85,8	
Asparticacid	%	7,15	82,1	83,0	
Glutamicacid	%	20,52	87,2	87,8	
Glycine	%	3,93	77,1	78,9	
Proline	%	2,91	96,3	99,0	