

Pigs and Poultry Feed

ProtiGrain® is an effective and cost-effective component for the feeding of pigs and poultry. ProtiGrain® mainly substitutes extracted soybeanmeal.

Use in Feeding

Animal	Ration up to
Sow, gestating	4%
Sow, lactating	8%
Growing-finishing pig	10–15%
Laying hen	15%
Chicken layers (extensive)	20%

Nutritional Values Swine (per kg Dry Matter)

Metabolizable energy (pig), MJ	12.7
Cystine, %	0.61
Lysine, %	0.73
Threonine, %	1.06
Methionine, %	0.52
Tryptophan, %	0.32

Interested?

More information about ProtiGrain® can be found on the internet at:

www.cropenergies.com

There you can find current product data as well as further information on production, quality and possible applications of ProtiGrain®.



ProtiGrain®

Rich in protein



An important contributor
to the European protein supply

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mobility – sustainable. renewable.

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ProtiGrain® is

- a dried, pelletized stillage from the sustainable Ethanol production in Zeitz (Germany)
- an excellent animal feed for cattle, pigs and poultry with outstanding palatability
- a controlled feed material, which is GMP+ FSA certified (No 5.05.01 on the German positive list for feed materials)
- GMO-free and “VLOG tested”
- a valuable protein and energy source with high protein availability through gentle, homogeneous drying
- a supplier of important vitamins and minerals, which also contains the value-determining ingredients of yeast cells
- a quality product made of high-quality and certified raw materials of European origin



Composition

Dry Matter, %	approx. 90
Per kg of Dry Matter (DM)	
Crude Ash, g	57
Crude Fibre, g	75
Crude Protein, g	315
Crude Fat, g	84
Starch & Sugar, g	77

Ruminants

The particular benefit of ProtiGrain® is the high energy and UDP (Rumen Undegradable Protein) content. Thus, ProtiGrain® is a valuable component in rations for high yielding dairy cows where it substitutes other protein sources. Due to the low content of sugar and starch, ProtiGrain® can significantly reduce the danger of acidosis.

Nutritional Values Ruminants (per kg of Dry Matter)

NEL, MJ	7.6
ME (Cattle), MJ	12.4
UDP 5*, %	60
Utilizable Crude Protein nXP, g	244
Ruminal N-balance, g	11.3

* in % of the total crude protein at 5% ruminal passage rate per hour (method according to Licitra et al., 1996)



Ruminants

Use in Feeding

Animal	Ration up to
Dairy cow	20%
Growing cattle	15%
Beef cattle	20%

In the feeding of beef cattle, ProtiGrain® is an excellent exclusive protein source.

Examples for Rations of Dairy Cows

(650 kg body weight, 4% milkfat, 3.6% milkprotein)

Animal feed	in kg of fresh matter per cow & day		
ProtiGrain®	3.5	2.5	2.0
Cornsilage	31	28	25
Grassilage	7.0	9.0	12.0
Soybeanmeal, extr.	1.3	0.6	2.5
Rapeseedmeal, extr.	2.0	2.2	–
Wheat	1.3	1.5	2.5
Corn	–	0.5	0.5
Protected fat	0.5	–	–
Minerals	0.3	0.3	0.3
kg Dry Matter-intake	21.3	19.7	19.8
MJ NEL / kg TM	7.0	6.7	6.8
sufficient for			
... kg Milk	35	30	30