



PRODUCT SPECIFICATIONS

PARAMETERS	IFB NEWGEN DDGS	OTHER DDGS	SOYA MEAL
Protein %	40-42	38-45	45-46
Moisture %	10.5-11	12-15	12
Fats %	7-8	6	0.95
Fibre %	6-8	8-12	6
Sand Silica % (Max.)	2.5	3.5	2.5
Calcium %	0.14	0.09	0.37
Phosphorus %	0.80	0.61	0.60
M Energy (Kcal/kg)	3,100-3,200	3,100	2,400
Pepsin Digestibility %	80	69	83
KOH Solubility	80.02	78.23	80.96
TDN %	87	85	78
UDP %	55	51	26

Key Amino Acid Profile

Lysine g/100 gm	1.62	1.34	2.92
Methionine g/100 gm	0.50	0.87	0.64
Threonine g/100 gm	1.55	1.60	1.81
Cystine g/100 gm	0.46	0.20	0.68
Tryptophan g/100 gm	0.38	0.20	0.66
Total of Above g/100 gm	4.51	4.21	6.71
Total Amino Acids g/100 gm	37.31	37.03	37.4
Lysine/Crude Protein*100	4.05	3.52	6.34
Anti-nutritional Factors	Nil	Nil	Trypsin Inhibitors

Microbial Analysis

Total Plate Count/g	1,400	2,000	50,000
Salmonella/25 g	Absent	Absent	Absent
E. coli/g	<10	30	Absent
Form	Almost Powder	Powder	Powder

Best before six months from date of packaging
 Product composition may vary slightly due to change of input rice variety



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IFB NEWGEN DDGS™

Distiller's Dried Grains with Solubles
 Value-added Organic Ingredient for Poultry, Aqua, Cattle and Swine Feed





The Association of American Feed Officials (AAFCO) defines DDGS—Distiller's Dried Grains with Solubles as 'a by-product of the removal of ethyl alcohol through distillation from fermented yeast of grain or a grain mixture by condensing and drying at least ¾ of the solid of the resultant whole stillage and drying it by methods employed in the grain distilling industry.'

THE POWER PACKED FEED

DDGS—Distiller's Dried Grain Solubles
A by-product of grain based distillery

In alcohol production, starch is fermented to obtain ethyl alcohol. The remaining components of the grain preserve much of the original nutritional value of the grain, including energy, protein, phosphorous. These components have conventionally been incorporated into animal feed. The feed is further enriched with amino acids and vitamins produced by the use of yeast in the process.

IFB NEWGEN DDGS, FEED SUPPLEMENT OF THE FUTURE

The installation of a dryer based on the state-of-the-art low temperature fluidised bed drying process in 2014, together with PLC based operation, preserves all nutritional values in the final rice-based IFB NEWGEN DDGS™ product.

USP OF IFB NEWGEN DDGS™

IFB NEWGEN DDGS™ has great potential value to lower cost in various animal feed rations. It has the following benefits—

- High protein 40–42%
- High energy 3400–3800 Kcal/kg
- High and favourable amino acid profile
- Single feed raw material—broken rice
- Phytic acid control in our DDGS increases digestibility
- Low anti-nutritional factors
- Yeast fermentation contains 3–5% dried yeast cells that provide Vitamin B complex, promote palatability and increase feed consumption
- Over 50% of phosphorus is present and has the potential to reduce di-calcium phosphate and thus lower ration costs
- Contains 7–8% fat which is an excellent source of linoleic acid and energy
- Distillery process is free from sulphuric acid—this makes the product inorganic, sulphur free and eliminates chances of nutritional problems in ruminant diets
- Contains low moisture and is thus free from all pathogenic fungus, bacteria and salmonella
- Longer shelf life

THE ADVANTAGE OF TECHNOLOGY

IFB NEWGEN DDGS™ dryer uses a state-of-the-art, low temperature fluidised bed drying system. IFB's technological advantages are—

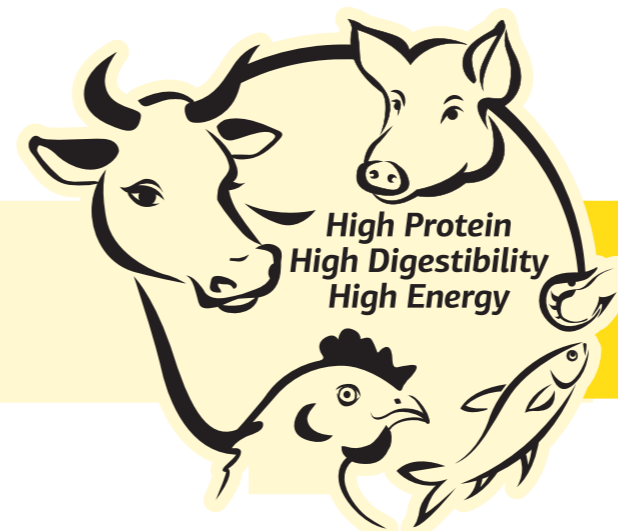
- Asia's first DDGS plant with unique fluidised bed drying system
- Fully automated drying plant with less manual involvement
- Drying bed temperature is precisely controlled and always maintained below 70°C to avoid burning/denaturing of the DDGS, which is not possible in conventional steam tube dryers
- Owing to low temperature drying, the Acid Detergent Insoluble Nitrogen (ADIN) of IFB NEWGEN DDGS™ is always lower (0.7%) compared to that of other drying technologies, which signifies higher digestibility
- IFB NEWGEN DDGS™ always contains higher digestible protein in comparison with any other drying technology

IFB NEWGEN DDGS™	VS	SOYA MEAL
By-product of the grain based alcohol industry, made with advanced technology		By-product of the soya bean oil industry
Exposed to 70°C maximum temperature—the DDGS production keeps nutritional value consistent		Exposed to high temperature 105°C, which will result in deterioration of protein and other nutritional content
Contains pro-biotic nutritional factors, created during fermentation		Does not contain pro-biotic nutritional factors
Not exposed to harmful chemicals during processing		Exposed to chemical solvents such as Hexene during oil extraction
Does not contain any major anti-nutritional factors		Contains anti-nutritional factors such as Trypsin



PROTEIN >40%	ENERGY >3400 Kcal/Kg	FAT >7%	MOISTURE <11%	AMINO ACID >37%
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Refer to table overleaf for exact values



**IFB
NEWGEN
DDGS™**

**THE PROTEIN OF
CHOICE FOR THE
FEED INDUSTRY**