



# US EXPORT-IMPORT CORPORATION

## COMPARING HI PROTEIN DDGS TO SOYBEAN MEAL AND CORN GLUTEN MEAL

### WHAT IS HI PROTEIN DDGS?

Hi protein DDGS is a 50%-protein product containing spent yeast from the ethanol fermentation process. It is produced by separating corn fiber prior to fermentation and removing the solubles fraction after fermentation to produce a high-quality combination of corn and yeast proteins.

This product is then gently dried to produce a highly digestible, plant-based protein product. Hi protein DDGS is a free-flowing meal and is golden in color.

### HOW CAN HI PROTEIN DDGS BE USED IN LIVESTOCK FEEDS?

Hi protein DDGS can be used in rations for a variety of livestock species. It is a concentrated protein source, low in both fiber and anti-nutritional compounds.

It is ideal for use in monogastric diets and is well-suited for use in all vegetable-based diets common in today's poultry industry. Additionally, use in swine and traditional poultry rations will likely be common. Lactating dairy cows would benefit from Hi protein DDGS as it serves as a source of rumen-undegraded protein that is highly digestible. Hi protein DDGS can also be used as an alternative protein source in a variety of aquaculture and pet food diets.

### 50% Hi PROTEIN DDGS BENEFITS

- 80% more lysine than corn gluten meal
- 50% more methionine than soybean meal
- 35% more total sulfur amino acids than soybean meal
- 30% more arginine than corn gluten meal
- Product is over 20% yeast on a weight basis
- High fat content should lead to excellent energy value compared to either SBM or CGM – this has been observed for a 40% protein product produced using similar technology – it had 10% more Swine ME than CGM, and 25% more than SBM



Hi Protein DDGS

All values presented on as-fed basis:

	SOYBEAN MEAL	HI PROTEIN DDGS	CORN GLUTEN MEAL
Moisture, %	12.0	10.0	10.0
Crude Protein, %	48.0	51.1	60
Crude Fat, %	1.52	9.6	4.74
Crude Fiber, %	3.89	8.5	0.7
ADF, %	5.28	20.0	5.0
NDF, %	8.21	27.5	7.0
Ash, %	6.27	2.17	1.46
Lysine, %	2.96	1.95	0.93
Methionine, %	0.66	1.08	1.21
TSAA, %	1.36	2.18	2.22
Threonine, %	1.86	1.98	1.81
Tryptophan, %	0.66	0.42	0.27
Arginine, %	3.45	2.62	1.66
Valine, %	2.23	2.58	2.42
Leucine, %	3.62	6.53	9.82
Isoleucine, %	2.14	2.16	2.23
Histidine, %	1.28	1.81	1.32
Sulfur, %	0.40	0.64	1.00
Phosphorus, %	0.71	0.68	0.49
Potassium, %	2.24	0.29	0.18
Magnesium, %	0.27	0.07	0.09
Calcium, %	0.33	0.01	0.03
Sodium, %	0.08	0.04	0.02

### Quantity

Metric ton- Plus / minus (10%) Ten percents at contract price at seller options

### Packing

Bulk in 20'/40' std and 40' high cube containers at seller options