

Animal Nutrition

What's in a feed bag?

Purchasing a complete commercial feed for your animal can be confusing. Knowing how to read feed labels and selecting the most appropriate feed to meet the nutritional needs of your animal can be a challenge. Since feed is 60-80% of the total cost of raising your animal, knowing how to evaluate feed is critical to the consumer. To assist you in purchasing the right feed for your animal's nutritional needs, the feed label is required to include the following information.

All feed bags must have the following:

- Product name
- Product purpose statement (must state the animal species and animal class the feed is intended for)
- Guaranteed analysis (states levels of nutrients essential for the animal species and class)
- Ingredients in the product (must be listed in descending order by weight)
- Feeding directions (enhances the ability of the purchaser to use the product safely and effectively inline with the statement of purpose)
- Warnings and cautions of the product
- Drug ingredients
- Persons or firm responsible for the product
- Net weight of the package

KALMBACH FEEDS
SINCE 1963

99999

2099MEC

KALMBACH

TARGET WEAN FIVE+

S.E.W. FORMULA ONE

Medicated

A complete swine starter feed formulated for control of swine dysentery (*vibrionic dysentery*, bloody scours or hemorrhagic dysentery); control of bacterial swine enteritis (salmonellosis or necrotic enteritis caused by *Salmonella choleraesuis*); for increased rate of weight gain and improved feed efficiency.

Active Drug Ingredients

Carbadox..... 50 g/ton

Guaranteed Analysis

Crude Protein (Min.)	23.0%
Lysine (Min.)	1.8%
Crude Fat (Min.)	5.0%
Crude Fiber (Max.)	2%
Calcium (Ca) (Min.)	0.80%
Calcium (Ca) (Max.)	0.95%
Phosphorus (P) (Min.)	0.7%
Salt (NaCl) (Min.)	1.25%
Salt (NaCl) (Max.)	1.75%
Selenium (Se) (Min.)	0.2 ppm
Zinc (Zn) (Min.)	2,500 ppm

Ingredients

Feeding Oatmeal, Dried Whey, Plant Protein Products, Dried Skim Milk, Spray Dried Animal Plasma, Grain Products, Lactose, Fish Meal, Animal and Vegetable Fat, Dicalcium Phosphate, Monocalcium Phosphate, Calcium Carbonate, dl-Methionine, L-Lysine, Choline Chloride, Vitamin A Supplement, Vitamin E Supplement, Artificial Sweetener and Flavor, D-Activated Animal Sterol (Source of Vitamin D-3), Niacin, Vitamin B-12 Supplement, Riboflavin, d-Calcium Pantothenate, Erythroquin (a preservative), Menadiolone Sodium Bisulfite Complex (Source of Vitamin K Activity), d-Biotin, Folic Acid, Bacillus licheniformis, Bacillus subtilis, Thiamine Mononitrate, Pyridoxane Hydrochloride, Zinc Sulfate, Zinc Oxide, Ferrous Sulfate, Manganese Sulfate, Copper Sulfate, Ethylenediamine Dihydrochloride, Cobalt Sulfate, Selenium Yeast, and Sodium Selenite.

WARNING

Do not feed to swine within 42 days before slaughter. Not for use in pregnant swine or swine intended for breeding purposes

CAUTION: Do not use in feeds containing *bestonite*.

Feeding Directions

Feed during the initial 7 days after weaning to pigs that weigh 5 to 10 lbs. at 10 to 16 days of age.

Manufactured by
KALMBACH FEEDS, INC.
UPPER SANDUSKY, OHIO 43351

Net Weight - 50 LBS. (22.7 Kg.) - BULK - Shown on Invoice

311320-277-1

A. Our lot number - important tracking information.

B. Our product code – use for ordering.

C. Name or Title of Product.

D. Indicates this product is a medicated feed.

E. Purpose statement: species, class, medication reason, etc.

F. Type and amount of medication.

G. Nutritional Guarantees – minimum and/or maximum values that the product must meet if tested by approved laboratory methods.

H. Ingredients in the feed. Can be listed as individual ingredients or collective terms for a group of AAFCO* approved ingredients.

I. **Warning and caution statements** are required the FDA. Withdrawal or unsafe feeding instructions are listed here. *This feed has a 42 day withdrawal*

J. Recommended feeding directions for this product

K. Manufacturer responsible for feed.

L. KFI code for internal use only.

M. Net weight of package.

* AAFCO = Association of American Feed Control Officials. This organization sets standard guidelines for all feed companies to follow for labeling products.



JOY BASIC BLEND

Guaranteed analysis

Crude Protein	21.0% min
Crude Fat	9.0% min
Crude Fiber	5.5% max
Moisture	10.0% max

Ingredients

Ground Yellow Corn, Wheat Middlings, Meat and Bone Meal, Corn Gluten Feed, Soybean Meal, Animal Fat (preserved with mixed tocopherols and citric acid), Natural Flavors, Corn Gluten Meal, Salt, Calcium Propionate (preservative), Potassium Chloride, Minerals (Zinc Sulfate, Ferrous Sulfate Monohydrate, Copper Sulfate, Manganese Sulfate, Calcium Iodate, Sodium Selenite), Vitamins (Vitamin A Acetate, D-Activated Animal Sterol (source of Vitamin D3), Choline Chloride, Vitamin E Supplement, Niacin, Calcium Pantothenate, Riboflavin, Pyridoxine Hydrochloride, Thiamine Mononitrate, Menadione Sodium Bisulfite Complex, Folic Acid, Biotin, Vitamin B12 Supplement).

JOY SUPER MEAL

Guaranteed analysis

Crude Protein	30.0% min
Crude Fat	20.0% min
Crude Fiber	3.0% max
Moisture	10.0% max

Ingredients

Chicken Meal, Brewers Rice, Chicken Fat (Preserved With Mixed Tocopherols And Citric Acid), Corn Gluten Meal, Pearled Barley, Oat Groats, Dried Beet Pulp, Natural Flavors, Dried Egg Product, Dicalcium Phosphate, Dried Brewers Yeast, Canola Oil, Fish Meal, Potassium Chloride, Salt, Dried Pumpkin, Minerals (Zinc Sulfate, Zinc Oxide, Zinc Protein, Ferrous Sulfate Monohydrate, Iron Protein, Copper Sulfate, Copper Protein, Manganese Sulfate, Manganese Protein, Calcium Iodate, Sodium Selenite), L-Lysine, DL-Methionine, Vitamins (Vitamin A Supplement, Vitamin D-3 Supplement, Vitamin E Supplement, Niacin, Calcium Pantothenate, Riboflavin, Pyridoxine Hydrochloride, Thiamine Mononitrate, Menadione Sodium Bisulfite Complex, Folic Acid, Biotin, Vitamin B-12 Supplement), Choline Chloride, L-Ascorbyl-2-Polyphosphate, Yucca Schidigera Extract.

Look at the sample feed label from Kalmbach Feeds below to help you understand how to read a feed label.

Complete the following chart using the information from Joy Dog Food.

Product information	Joy Basic Blend (50-pound bag)	Joy Super Meal (50-pound bag)
Crude protein (min)		
Pounds of protein		
Crude fat (min)		
Pounds of fat		
Crude fiber (max)		
Pounds of fiber		
Main ingredient		
Dog activity recommendation		

Things to consider:

- Fat is energy-dense, providing almost 2.25 times as much energy, pound per pound, than carbohydrates or protein. Carbohydrates (fiber) and protein provide 4 calories/gram, whereas fats provide 9 calories/gram.
- The volume of stool is directly related to the amount of indigestible ingredients in the pet food. Some level of indigestible fiber from healthy sources is good, since fiber helps clean the digestive tract, stabilize blood sugar and maintain good weight. However, if the ingredient list includes a high amount of indigestible fiber, a lot of the food that goes in your dog's mouth passes right through his system and comes out the other end.

1. Which pet food product will deliver more calories per pound? How can you determine this?
2. Which pet food product will your pet need to consume more of to maintain its body condition? What factors help you to determine this?
3. As a consumer, which product is the most economical choice for your pet? How many pounds of dog food would you need of each product in order to reach your goal of 900 calories of pet food per day? If the Joy Basic Blend is three-quarters of the price of the Joy Super Meal, which is the most economical choice? Which choice will leave you with less clean-up in the yard?