

## Two Leptospirosis Vaccines Licensed

The U. S. Department of Agriculture (USDA) has granted a one-year, conditional license for an Illinois laboratory to produce two new vaccines against leptospirosis, a disease affecting dairy and beef cattle as

well as swine.

Officials of USDA's Animal and Plant Health Inspection Service (APHIS) explained that the disease causes abortion and - in dairy herds - a sharp drop in milk production. Symptoms

recur year after year if the infection persists.

The conditional license to produce the vaccines was granted to Affiliated Laboratories, of White Hall, Ill.

The two new vaccines protect against two types of leptospirosis infection - those caused by the bacteria *Leptospira hardjo* and *L. grippityhosa*. Previously no vaccines were available against these two types of infection, APHIS officials said, although vaccines were on the market against a third type, caused by *L. pomona*.

After tests are conducted to establish which types of leptospirosis organism are involved, the whole herd should be vaccinated, with a revaccination four to six weeks later. Annual revaccination should be continued under the direction of a veterinarian until the infection is eliminated from the herd.

The two new vaccines were licensed under authority of the Virus-Serum-Toxin Act of 1913, which provides that vaccines and other biologics for animals must meet government standards for purity, safety, potency, and efficacy.

APHIS officials stressed that the new licenses are limited to one year of production. During this time, the licensee must continue studies on how well the vaccine withstands challenge by disease organisms-both in the laboratory and in actual farm use. Also, the firm has to develop an improved quality control test to evaluate potency of each serial of the vaccine against *L. hardjo*



## Doctor in the Kitchen®

by Laurence M. Hursh, M.D.  
Consultant, National Dairy Council

### NUTRITION A LA CARTE

• Here are tips for taking care of food. Keep fresh milk covered in the coldest part of your refrigerator. The dairy took special pains to bring it to you in good condition. The rest is up to you. Leftovers, except bread and baked goods, should be refrigerated promptly, covered, and used as soon as possible.

• Why do we need water? All of the body's chemical processes take place in solution. Thus, water is essential. Some of the water our bodies use each day must be replaced because of water excreted. Several pints a day are used up by our kidneys, bowels, perspiration, and exhaled breath.

• Forming good eating habits is one of the foundations for good health that parents can pass along to their children. To help your preschooler eat well, serve small portions of food. Serve his food at medium temperature, neither too hot nor too cold. Finger foods, easy to handle, work well. Season food moderately.

• Unless the food you eat gives you all the nutrients you need you could suffer deficiency diseases. These are not always easy to spot until they become obvious, such as scurvy, rickets or certain types of anemia. This is why it is so important to eat properly every day. Choose your foods from a wide variety of food stuffs

• An effective way to interest young children in eating good lunches is to have them participate in preparing food. Your older children may prefer to make their own lunches. The younger children can help you prepare some of the food. Whatever, with a little guidance from you, their interest in good nutrition should increase.

• Foods from animal sources contain high quality protein because they generally contain more essential amino acids. Plant foods, as a class, offer protein that is incomplete in some essential amino acids. That's one reason nutritionists recommend that you combine both animal and vegetable foods in your meals. Research shows your body needs to have all the essential amino acids at one time.

• To properly use carbohydrates and obtain energy from them, you need vitamin B1. Its real name is thiamin. Good sources of this vitamin include pork, liver, heart, kidney, whole grain or enriched breads and cereals, peas and beans, nuts and eggs. Some thiamin is available in other meats, and in vegetables




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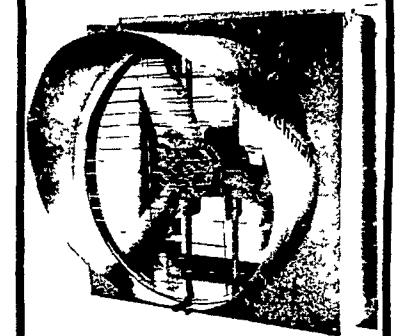
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