

# NUTRA-AID™

Direct-Fed Microbial Feed Additive



## Functional Microbes

**NutraAid** is a line of probiotic products that include *Bacillus subtilis* and *Bacillus licheniformis*. Both strains have been widely used in feed additives for their beneficial functions for livestock, poultry, and aquaculture.

- In livestock and poultry:

**NutraAid *Bacillus licheniformis*** and **NutraAid *Bacillus subtilis*** help animals establish healthy microflora in their digestive tracts, aid digestion and nutrient absorption, and help prevent toxic amine synthesis. Along with these benefits, **NutraAid** helps reduce ammonia and nitrogen excretion in waste, creating a healthier farming and living environment.

- In aquaculture:

**NutraAid *Bacillus subtilis*** can secrete various functional enzymes to digest a wide range of organic matters found in aquaculture ponds, providing the ability to decompose waste and undigested feed, and to minimize the accumulation of sludge. This results in purified water and improved water quality in aquaculture ponds, which reduces the environmental stress on the growth of shrimp and fish.

## Product Profile:

Form: Powder

Function: Improves digestion and promotes a healthy gut environment

Shelf life: 24 months at room temperature

**Made in  
USA**

## Advantages:

- Direct-fed microbial strains
- Easily added into current diet
- Great for all growing stages
- Adds beneficial bacteria into an animal's gut

## Key Features:

- Competitively inhibits pathogenic bacteria
- Improves immunity
- Increases digestion of feed
- Reduces ammonia and nitrogen in waste
- Improves water quality in aquaculture ponds
- Stimulates strong enzymatic activities



## Mechanisms

The **NutraAid** probiotics can attach on the surface of the intestine and compete with pathogens for inhabitation and nutrients. The probiotics then secrete various enzymes, and antibacterial peptide and aminoglycoside to ensure their survival. This inhibits the domination of pathogens while improving digestion and absorption.



## Benefits of Using NutraAid

**NutraAid** products are acid proof, salt tolerant, heat resistant, and compression resistant. This allows it to maintain its activities and efficiency despite the feed granulation process and the acidic conditions in the stomach.

Beyond the benefits to an animal's digestive health and nutrient absorption, **NutraAid** is safe, nontoxic, and effective in reducing ammonia and nitrogen pollution associated with livestock and poultry.

