Health-Promoting Animal Feed and Human Nutritional Supplement Containing Mesobiliverdin from Microalgal Feed Stock

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Food & Agriculture

Abstract

Aggie Feed contains Mesobiliverdin (MBV) an anti-inflammatory agent that can be used as a probiotic to prevent/treat inflammatory bowel disease (IBD) in animals while at the same time acting as a calcium supplement. Testing has been successfully proven on mice, pigs, and rabbits resulting in positive outcomes for their overall health.

Problem

IBD is a disease that causes many digestive and intestinal complications. In animals, IBD and colitis cause painful inflammation in the intestines and digestive tract, which can limit their ability to absorb nutrients from food.

Solution

Aggie Feed seeks to solve the problem of IBD by acting as an inflammatory suppressant and health supplement. Used as a probiotic to treat/prevent IBD and colitis, it can allow animals to properly digest food and absorb nutrients.

Value Proposition

This technology can be safer to use than other existing drugs on the market. It is more cost effective and natural in composition. It can be used as a supplement for companies to mix into their bulk feed for livestock.

Benefit

Intestinal Inflammatory Disease (IBD) causes inflammation in the intestines and digestive tract. This negatively affects animals because it hinders their ability to absorb the nutrients from the food they are eating and can lead to further health problems. Aggie Feed contains a component called Mesobiliverdin (MBV), which seeks to solve this problem by acting as a probiotic to prevent and/or treat IBD and colitis to improve the nutrition and health of animals. It acts as both an anti-inflammatory agent and calcium supplement to better help the animal to process and absorb the nutrients from the food that it is eating. Since it is natural in composition, Aggie Feed is safer than other leading drugs on the market used to treat IBD.

Market Application

Markets for this technology include those that sell antibiotics, probiotics, and feed supplements used to treat/prevent IBD and colitis. Feed companies seeking to implement safe, cost-effective, and natural components into their products could mix it into their feed as a supplement. Farmers and ranchers could also use it as a supplement to feed their animals by mixing it into their food.

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Publications

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Intellectual Property

Issued U.S. Patent No. 9,242,932, Issued January 26, 2026, entitled “Meso-Biliverdin Compositions and Methods” (USU Ref. P11058.02)