



## NEWS RELEASE

For Release: IMMEDIATELY

Contact: Lisa Coverdale (317) 758-4495 ext. 1164  
Marketing Assistant  
Lisa.Coverdale@jbsunited.com

### **JBS United research paper appears in Feedstuffs magazine**

**SHERIDAN, Ind., May 23, 2008** – The JBS United Research and Development team has completed a research study and paper addressing the problems and solutions regarding the high cost of phosphorous. The June 2 issue of Feedstuffs includes an article summarizing this research in the Nutrition and Health section. The research and article highlight the superior benefits and cost savings from using OptiPhos®, an advanced phytase enzyme.

Renowned animal nutrition scientist David H. Baker, Ph.D. from the University of Illinois, led a research project comparing various phytase enzyme products used in swine and poultry diets. Using microbial phytase enzymes in animal diets allows the animal to unlock the phosphorous bound in the phytic acid of common feedstuffs, increasing the bioavailability of that phosphorous, and reducing or eliminating the use of inorganic phosphorous.

Inorganic phosphorous products, commonly referred to as dical, deflour, and monocal, have seen price increases of over 400% in recent years, making the need for cost effective alternatives more urgent.

Phytase enzymes are excellent alternatives to using expensive inorganic phosphorous. They have been used in various degrees for approximately 15 years, so their effectiveness is well documented, but newer products, like Optiphos, require that research to continue on an on-going basis. A key factor in analyzing phytase products is the amount of phosphorous released from the feed.

- more -



## **JBS United research paper appears in Feedstuffs magazine**

(page 2)

Dr. Baker's research with swine and broiler chickens fed corn-soybean meal diets at inclusion rates of 1,000 phytase units (FTU) per kg of feed concluded that OptiPhos released the most bioavailable phosphorous (0.20%). At this release level, up to 22 lbs of inorganic phosphorous can be replaced per ton of complete feed.

Thus, the research concludes that the use of OptiPhos can generate a significant cost savings. Factoring in the reduction or elimination of inorganic supplemental phosphorous, the cost of the enzyme product itself, the addition of limestone to replace lost calcium, and the addition of corn for weight purposes, the total cost savings could be as much as \$5.50 / ton of feed.

Additional benefits of OptiPhos include a dramatic reduction in phosphorous excretion rates, improvement in gain/feed ratios (in swine), and the ease-of-use and ability to survive pelletizing and other processes. Along with the reduction in phosphorous excretions, the environment benefits, and potential fines or legal actions aimed at producers can be eliminated.

### **About JBS United**

Since its founding in 1956, JBS United has been dedicated to providing research-based solutions to enhance animal nutrition and livestock production profitability. The company provides products to pig and poultry producers worldwide. For more information, visit the JBS United web site at [www.JBSunited.com](http://www.JBSunited.com) or the OptiPhos website at [www.OptiPhos.net](http://www.OptiPhos.net).