Animal feed containing bioactive compounds: benefits

The integration of bioactive compounds into animal feed has gained significant attention in recent years due to its potential to enhance animal health, productivity and improved quality of animal-derived products. The bioactive compounds present in the NeoGiANT extract are mainly polyphenols, these natural chemical substances have strong antioxidant and anti-inflammatory effects and show antimicrobial activity against multiple pathogens.

Therefore, polyphenols can help prevent infections and improve gut health in livestock by e.g. reducing oxidative stress and enhancing cellular function. The NeoGiANT extracts can play a major role in improving animal health by boosting immune function and reducing the risk of clinical diseases, which will also have indirect beneficial effects on animal welfare.



In addition, the extracts can contribute by enhancing animal performance parameters including growth rate and feed efficiency. In the in vivo trials executed within the NeoGiANT project, the extracts will be supplemented to feed or drinking water of poultry, pigs, cattle and fish, to investigate the effects on performance and health status. Moreover, the use of bioactive compounds in animal feed can also have positive environmental implications by reducing the need for synthetic additives and antibiotics, thus mitigating environmental pollution, antibiotic resistance and promoting sustainable animal production practices.

In conclusion, the incorporation of bioactive compounds into animal feed offers a multifaceted approach to improving animal health, animal welfare and productivity while also addressing environmental concerns associated with livestock production practices.

NeoGiANT

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