

Press Release – For Immediate Distribution



Layn Natural Ingredients Launches TruGro® MYC – Natural Animal Feed Additive Designed to Help Reduce the Pathogenic Effects of Mycotoxins

IRVINE, Calif., Oct. 25, 2022 – Layn Natural Ingredients, one of the world’s largest vertically-integrated manufacturers and innovators of natural, functional botanical extract ingredients and solutions has launched TruGro® MYC, a potent, polyphenol-rich botanical extract solution for use as an animal feed additive to reduce the negative effects of mycotoxins on production animals.

Mycotoxins are secondary metabolites from certain species of molds when the temperature and humidity of substrates are in a certain range. Deficient feed management practices can also lead to mycotoxin release in finished feed product. When mycotoxins form on agricultural crops, contaminated material may enter the animal production feed chain. A paper published in 2019 reported that 88% of all feed samples analyzed contained at least one mycotoxin, and over 64% were co-contaminated with two or more mycotoxins(1).

Studies have demonstrated that the polyphenols contained in TruGro MYC may help reduce the effects of various mycotoxins in production animals, namely broilers and swine. The research shows that these polyphenols are potent antioxidants that may help reduce oxidative stress through the modulation of two critical signaling pathways in the cell: NF- κ B and Nrf2 (2,3). The studies demonstrate that this may occur through the deactivation of NF- κ B pathway resulting in decreased expression of pro-inflammatory cytokines TNF- α , IFN- γ , IL-1 β , IL-10, and IL-6.

Mycotoxins in animal feed have been shown to increase oxidative stress in production animals, which can have numerous detrimental effects in production. TruGro MYC contains potent polyphenols – proanthocyanidins and catechins – which are powerful metabolic antioxidants that have been shown to reduce the negative pathenogenic effects mycotoxins have on production animals. The reduction of oxidative stress can decrease the inflammatory response, increase enzyme synthesis, contribute to homeostasis maintenance and support immune health.

TruGro MYC polyphenols may also help protect swine from the effects of other mycotoxins including fumonisin b1, which can be detrimental to the liver and other organs of production

animals. The TruGro MYC polyphenols have been shown to help support swine liver and kidney function and reduce other negative effects of mycotoxins (4,5).

Research has also shown that the polyphenols from TruGro MYC may help ameliorate the effects that aflatoxin B1 can have in piglets (6,7) and may help reduce the harmful effects that combined aflatoxin B1 and ochratoxin A mycotoxins can have on the kidneys of swine(8).

Mycotoxins are a pervasive challenge in animal production. TruGro MYC is an innovative, natural antioxidant solution both for reducing some of the potential effects of mycotoxins within swine and other species.

For more information, visit <https://layncorp.com/trugro>.

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About Layn Natural Ingredients:

Layn Natural Ingredients is one of the world's largest innovators of natural botanical extract ingredients and solutions serving the biggest brands in food, beverage, flavor, nutraceutical, sports nutrition, personal care, animals and pets for over 25 years. Truly vertically integrated, Layn offers nearly three decades of experience in providing a fully secure, manufacturer-direct, transparent and scalable supply chain. From seeds and agronomy, to extraction and formulation, Layn is committed to quality, innovation and sustainability. Its world-class R&D operation includes more than 2.2 million square feet of state-of-the-art extraction, and global innovation centers throughout the world to conduct research, ensure quality, and provide formulation and application guidance. Layn is also the parent company of wholly owned subsidiary, HempRise, a US-based entity specializing in the direct manufacture and innovation of CBD and hemp extract ingredients. *Botanify* your product portfolio now with Layn Natural Ingredients – Email botanify@layn-usa.com, or visit: www.layncorp.com.

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