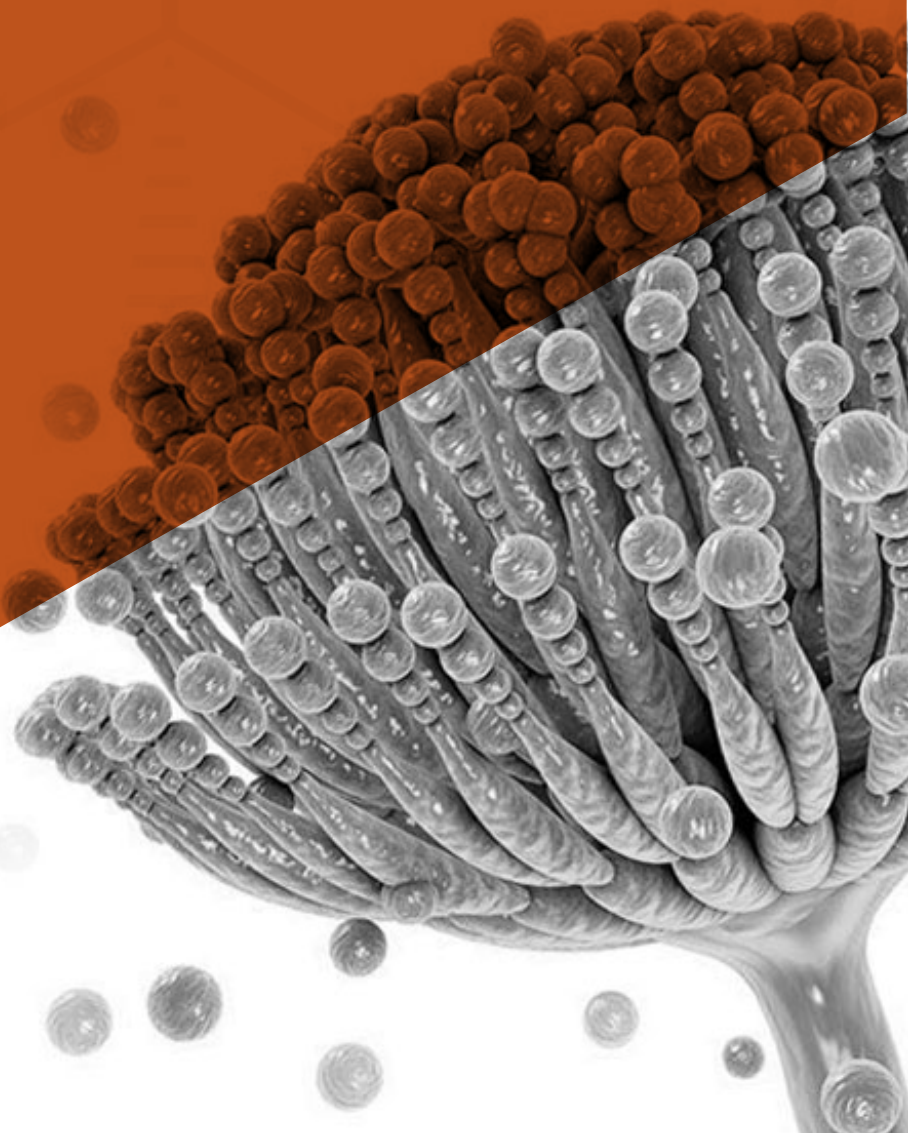


# COMMON MYCOTOXINS THAT ARE PRODUCED BY THESE MOLDS.

**Alltech**<sup>®</sup>  
MYCOTOXIN  
MANAGEMENT



# Fusarium

MYCOTOXIN GROUP	MYCOTOXINS OF CONCERN IN GROUP	PRIMARY PRODUCTION	GENERAL EFFECTS ON ANIMALS
Type B Trichothecenes	Deoxynivalenol (DON) 3-acetyl-DON 15-acetyl-DON DON-3-glucoside Fusarenon X Nivalenol	Field	Reduced feed intake/gain Lethargy Gut damage Increase in intestinal pathogens Reduced reproduction Reduced milk production
Type A Trichothecenes	T2-toxin HT2-toxin Diacetoxyscirpenol Neosolaniol	Field	Reduced feed intake/gain Gut damage/lesions Hemorrhagic bowel/bloody manure Internal organ damage Reduced reproduction Reduced milk production
Fumonisin	Fumonisin B1, B2, B3	Field	Increase in intestinal pathogens Immune suppression Reduced gain and efficiency Porcine pulmonary edema Equine leukoencephalomalacia
Zearalenones	Zearalenone Zearalanone Conjugated forms	Field	Altered heat cycles Poor breeding performance Vaginal swelling/prolapse Abortions
Fusaric Acid	Fusaric Acid	Field	Lethargy Reduced feed intake Swelling of extremities or mammary Synergistic with other mycotoxins
Emerging Mycotoxins	Beauverivcin Moniliformin Enniatins A/A1, B/B1	Field	Intestinal/organ damage Suppression of immune status Reduced reproduction Reduced gain/efficiency

# Aspergillus

MYCOTOXIN GROUP	MYCOTOXINS OF CONCERN IN GROUP	PRIMARY PRODUCTION	GENERAL EFFECTS ON ANIMALS
Aflatoxins	Aflatoxin B1, B2, G1, G2	Field/Storage	Liver damage Anorexia Immune suppression or inflammation Mastitis/increase somatic cell count Milk contamination Carcinogenic
"Other Aspergillus"	Gliotoxin Sterigmatocystin Cyclopuazonic Acid Verruculogen	Field/Storage	Organ damage Intestinal damage Immune suppression Increase in infections Carcinogenic

# Penicillium

MYCOTOXIN GROUP	MYCOTOXINS OF CONCERN IN GROUP	PRIMARY PRODUCTION	GENERAL EFFECTS ON ANIMALS
Ochratoxins	Ochratoxin A, B	Field/Storage	Kidney damage Abortions
Citrinin	Citrinin	Field/Storage	Kidney damage Hepatotoxicity
"Other Penicilliums"	Patulin Penicillic Acid Mycophenolic Acid Citroviridin Wortmannin	Field/Storage	Immune suppression Increase in infections Altered rumen function Altered reproductive function Reduced milk production/quality

Fungal Genera

# Claviceps

MYCOTOXIN GROUP	MYCOTOXINS OF CONCERN IN GROUP	PRIMARY PRODUCTION	GENERAL EFFECTS ON ANIMALS
Ergot alkaloids	Ergometrin(in)e Ergotamin(in)e Ergocristin(in)e Ergosin(in)e Ergocornin(in)e Ergocryptin(in)e Lysergol Methylergonovine	Field	Gangrene or extremities Impaired thermoregulation Intestinal damage Weight loss Altered reproductive performance Reduced milk production/agalactia Immune suppression

Fungal Genera

# Alternaria

MYCOTOXIN GROUP	MYCOTOXINS OF CONCERN IN GROUP	PRIMARY PRODUCTION	GENERAL EFFECTS ON ANIMALS
Alternaria toxins	Alternariol	Field/Storage	Allergic reactions Estrogenic properties Impact on reproductive performance Has synergistic properties with zearalenone

Fungal Genera

# Diaporthe toxica

MYCOTOXIN GROUP	MYCOTOXINS OF CONCERN IN GROUP	PRIMARY PRODUCTION	GENERAL EFFECTS ON ANIMALS
Phomopsin A	Phomopsin A	Field/Storage Found on lupin material	Kidney and liver damage Jaundice Staggering gate Anorexia Death Sheep most sensitive, followed by horses, pigs and other ruminants



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