

# 國立臺灣大學技術行銷表

臺大案號:12A-09110

產學合作中心聯絡人：駱瑋蓁 電話：02-33669948 e-mail：weichenlou@ntu.edu.tw

產品/技術名稱	以地衣芽孢桿菌去除玉米烯酮毒素
發明人/單位	劉嘉睿教授 / 生物科技研究所 易秉蓉 / 動物科學技術學系 白正康 / 國立臺灣師範大學生命科學系
產品/技術說明	穀物受黴菌污染為全球普遍存在的問題，其導致人類與畜禽健康受損而產生巨額經濟損失。本發明係利用一株不具有溶血性與內毒素的地衣芽孢桿菌進行穀物中玉米烯酮毒素之去除，以減少玉米烯酮毒素之危害。
應用範圍	飼料添加劑
產品/技術優勢	本發明之地衣芽孢桿菌不僅具有清除玉米烯酮毒素的能力，亦具有極高的聚木糖酶、纖維素酶以及蛋白酶活性，故不僅可去除飼料中的玉米烯酮毒素，亦可促進飼料中纖維素、半纖維素與蛋白質的水解。
產品/技術 智財權保護方式	專利申請中

# Marketing Abstract of NTU's Invention Disclosure

NTU's docket no: 12A-091109

CIAC contact : Lou Wei-Chen

Tel : 02-33669948

e-mail : weichenlou@ntu.edu.tw

<b>Title</b>	Detoxifying of zearalenone (ZEN) by <i>Bacillus licheniformis</i>
<b>Inventor (s)</b>	Je-Ruei Liu / Institute of Biotechnology Ping-Jung Yi / Department of Animal Science and Technology Cheng-Kang Pai / Department of Life Science (National Taiwan Normal University)
<b>Brief Description</b>	The worldwide contamination of cereals, oilseeds, and other crops by mycotoxin-producing moulds is a significant problem. Mycotoxins have adverse effects on human and animal that result in illness and economic losses. In this invention, detoxifying of zearalenone by a non-hemolytic and non-enterotoxin producing strain of <i>Bacillus licheniformis</i> (CK1) was described. <i>B. licheniformis</i> CK1 has the potential for in the bio-detoxification of ZEN in food and feed.
<b>Fields of Application</b>	Feed additive
<b>Advantages</b>	<i>B. licheniformis</i> CK1 not only exhibited characteristic detoxification effects on ZEN but also displayed high levels of extracellular xylanase, cellulase, and protease activities. Thus it could promote the degradation of cellulose, hemicellulose, and protein in feed.
<b>IP Right(s)</b>	Patent pending