

王丽英,任贝贝,杨立新,路杨,常凤启,刘印平.河北地区谷物及谷物制品中脱氧雪腐镰刀菌烯醇及其衍生物污染水平调查与分析[J].中国食品卫生杂志,2015,27(5):571-575.

## 河北地区谷物及谷物制品中脱氧雪腐镰刀菌烯醇及其衍生物污染水平调查与分析

### Investigation and analysis of deoxynivalenol and its derivatives pollution levels in cereal and cereal-based product in Hebei

投稿时间: 2015-03-31

DOI:

中文关键词: [河北](#) [谷物](#) [脱氧雪腐镰刀菌烯醇](#) [食品污染物](#) [食品安全](#)

Key Words: [Hebei](#) [grain](#) [deoxynivalenol](#) [food contaminant](#) [food safety](#)

基金项目:

作者	单位	E-mail
<a href="#">王丽英</a>	<a href="#">河北省疾病预防控制中心,河北,石家庄 050021</a>	wangliyong2011@163.com
<a href="#">任贝贝</a>	<a href="#">河北省疾病预防控制中心,河北,石家庄 050021</a>	
<a href="#">杨立新</a>	<a href="#">河北省疾病预防控制中心,河北,石家庄 050021</a>	
<a href="#">路杨</a>	<a href="#">河北省疾病预防控制中心,河北,石家庄 050021</a>	
<a href="#">常凤启</a>	<a href="#">河北省疾病预防控制中心,河北,石家庄 050021</a>	
<a href="#">刘印平</a>	<a href="#">河北省疾病预防控制中心,河北,石家庄 050021</a>	

摘要点击次数: 387

全文下载次数: 694

中文摘要:

为了解河北地区谷物及其制品中脱氧雪腐镰刀菌烯醇(DON)及其衍生物污染状况,对河北地区31份婴幼儿谷类辅食、112份燕麦及其制品和293份小麦粉中DON及其衍生物污染状况进行研究。方法 采用液相色谱-串联质谱法进行检测。结果 婴幼儿谷类辅食检出率为93.5%(29/31),燕麦及其制品检出率为8.9%(10/112),小麦粉样品检出率为99.7%(292/293)。结论 检测数据表明,含有小麦粉的婴幼儿谷类辅食及燕麦制品污染较为严重,且小麦粉样品中DON的阳性检出率为99.7%,由此可见,小麦粉很容易受DON污染。在此次检测的436份样品中,阳性样品最大值为878.4 μg/kg,所有样品DON含量均低于我国谷物食品中的限量标准,由于我国缺乏婴幼儿辅食中DON的限量规定,其污染状况值得引起关注。

Abstract:

To elucidate the contamination situation of deoxynivalenol (DON) and its derivatives in cereal and cereal-based products collected from Hebei region, 31 infant cereal food supplement, 112 oat and oat-based products and 293 wheat flour were investigated. Methods The samples were detected by liquid chromatography tandem mass spectrometry referred to the method of monitoring manual of chemical contaminants and harmful factors in food. Results 29 infant cereal food supplement samples were detected DON and the detection rate was 93.5%, 10 oat and oat-based products were detected DON and the detection rate was 8.9%, 292 wheat flour samples were detected DON and the detection rate was 99.7%. The serious contamination samples of DON in infant food supplement and oat-based products were contained wheat flour. Conclusion DON contamination in wheat flour was common. The maximum contamination level was 878.4 μg/kg, but all samples were below the national standards. Because there was no limit for DON in infant food supplement, the contamination was worthy of attention.

[查看全文](#) [查看/发表评论](#) [下载PDF阅读器](#)

您是第27863210位访问者 今日一共访问44次

版权所有:《中国食品卫生杂志》编辑部 京ICP备12013786号-3

地址:北京市朝阳区广渠路37号院2号楼501室 邮编:100022

E-mail:spws462@163.com 电话/传真:010-52165456/5441(编辑室) 010-52165556(主编室)

未经授权禁止复制或建立镜像

技术支持:北京勤云科技有限公司

