

HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

<i>QUICK</i> SEARCH:		[advanced]
	Author:	Keyword(s):
Go		
Year:	Vol:	Page:

Journal of Dairy Science Vol. 76 No. 7 1845-1849 © 1993 by American Dairy Science Association ®

# Application of a Diphasic Dialysis Technique to the Extraction of Aflatoxins in Dairy Products

Susana Diaz <sup>1</sup>, Miguel A. Moreno <sup>1</sup>, Lucas Dominguez <sup>1</sup>, Guillermo Suarez <sup>1</sup>, and Jose L. Blanco <sup>1</sup>

<sup>1</sup> Departamento de Patología Animal I (Sanidad Animal), Facultad de Veterinaria, Universidad Complutense, 28040 Madrid, Spain

A new method is described for the extraction of aflatoxins from milk and milk products based on a diphasic dialysis technique, followed by detection and quantification of aflatoxins by TLC. Recovery was 65 to 99% for aflatoxins  $B_1$ ,  $G_1$ , and  $M_1$ , and the detection limit in milk and yogurt was .01 to .02 ppb for all aflatoxins studied. In cheese, the detection limit was .03 to .04 ppb for aflatoxins  $B_1$  and  $G_1$  and .1 ppb for aflatoxin  $M_1$ .

The main advantages of this technique are its simplicity; sensitivity; very economical use of reagents, thereby minimizing environmental pollution; efficiency, allowing the quick processing of a high number of samples; use by laboratories with little equipment; and a sensitivity comparable with that of much more sophisticated techniques.

Key Words: technique • dialysis • aflatoxins • dairy products

Submitted on July 1, 1992 Accepted on January 19, 1993

## This Article

- Full Text (PDF)
- Alert me when this article is cited
- Alert me if a correction is posted

## Services

- Similar articles in this journal
- ▶ Similar articles in PubMed
- Alert me to new issues of the journal
- Download to citation manager
- ► © Get Permissions

## Citing Articles

Liting Articles via Google Scholar

## Google Scholar

- Articles by Diaz, S.
- Articles by Blanco, J. L.
- ▶ Search for Related Content

#### PubMed

- ▶ PubMed Citation
- Articles by Diaz, S.
- Articles by Blanco, J. L.

HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

Copyright © 1993 by the American Dairy Science Association ®.