

DIN EN ISO 14501:2021-08 (E)

Milk and milk powder - Determination of aflatoxin M1 content - Clean-up by immunoaffinity chromatography and determination by high-performance liquid chromatography (ISO 14501:202 1)

Contents	Page
European foreword	3
Forewords	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Principle	7
5 Reagents	7
6 Apparatus	9
7 Sampling	10
8 Procedure	10
8.1 General	10
8.2 Preparation of test samples	10
8.2.1 Milk	10
8.2.2 Milk powder	10
8.3 Immunoaffinity column preparation	11
8.4 Test sample purification	11
8.5 High performance liquid chromatography (HPLC)	11
8.5.1 Pump setting	11
8.5.2 Chromatographic performance	11
8.5.3 Calibration curve of aflatoxin M ₁	12
8.5.4 Analysis of the purified extracts and injection scheme	12
9 Calculation and expression of results	12
9.1 Skimmed milk	12
9.1.1 Calculation	12
9.1.2 Expression of results	12
9.2 Skimmed milk powder	13
9.2.1 Calculation	13
9.2.2 Expression of results	13
10 Precision	13
10.1 Interlaboratory test	13
10.2 Repeatability	13
10.3 Reproducibility	13
11 Test report	14
Annex A (informative) Results of an interlaboratory trial	15
Bibliography	16