

Technical Datasheet

Analysis Name:	Determination of Aflatoxin M1 by HPLC
Method Number:	LIBR 004
Scope Application:	Description of a reference method for the determination of aflatoxin M1 in liquid milk, skimmed milk and low fat milk, whether raw or pasteurized, UHT-treated or sterilized, as well as in whole milk powder, skimmed milk powder, demineralized whey powder, caseinates, and dietetic specialities containing protein hydrolysates.
Description:	Aflatoxin M1 is extracted by applying the test portion (liquid milk or reconstituted milk powder) to an immunoaffinity column containing specific monoclonal antibodies bound onto a solid support material. As the sample passes through the column, the antibodies selectively bind with any aflatoxin M1 present to form an antibody-antigen complex. All other components of the sample matrix are washed off the column with distilled water. Then aflatoxin M1 is eluted from the column with pure acetonitrile and quantitated by reversed-phase HPLC with fluorescence detection
Sample Weight Required:	120 g
Method Reference:	-
Analytical Platform:	HPLC
Special Information:	Method accredited ABNT ISO 17025: 2017.

Analyte Reported	Alias	Unit of Measure	Typical Limit of Quantification	Uncertainty
Aflatoxin M1	-	µg/kg	0.020	< 38 %