



Quantification of Aflatoxin M1 in Milk Using SCIEX QTRAP® 4500 LC-MS/MS System

Recent issues surrounding the mycotoxins in milk samples are of major concern. India, one of the major consumers of milk, has tightened the inspection of the toxins in the milk samples. Aflatoxin M1 is one of the contaminants that occur in the milk samples. A robust method was developed using the SCIEX QTRAP® 4500 LC-MS/MS System coupled with an ExionLC™ system. The method was validated as per the European commission regulations, where the regression coefficient is greater than 0.99 and the % CV at the LOQ and LOD level is below 5%. The method was robust and reproducible at the LOD level.

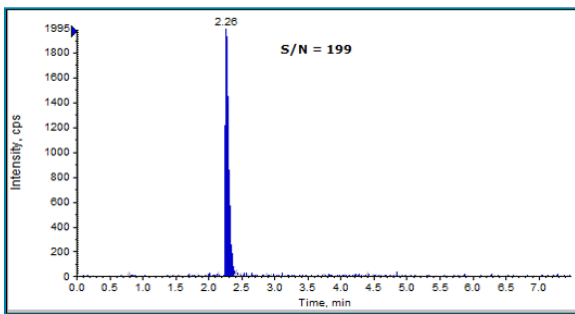


Figure 1. Chromatogram showing S/N ratio of Aflatoxin M1 at MRL level (0.50 µg/l) concentration.

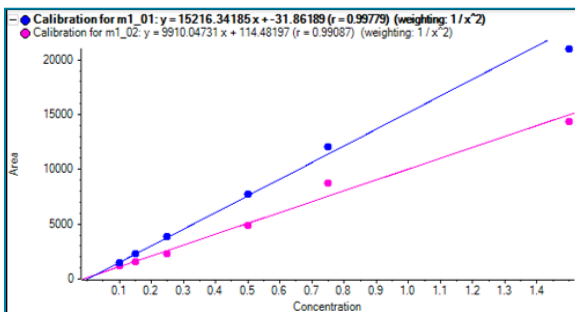


Figure 2. Calibration curve of Aflatoxin M1 in milk.

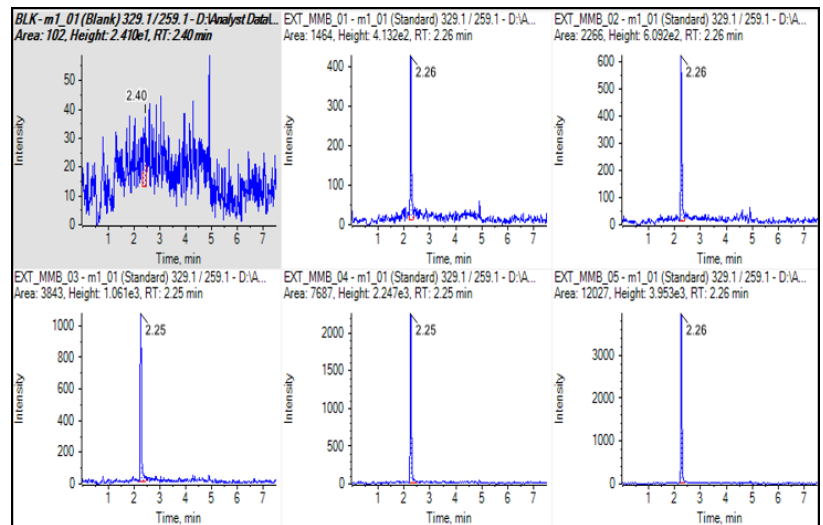


Figure 3. Representative chromatogram of Aflatoxin M1 ranging from 0.15µg/l to 1.5µg/l.

To learn more about this method please email: Marketing.India@sciex.com

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