

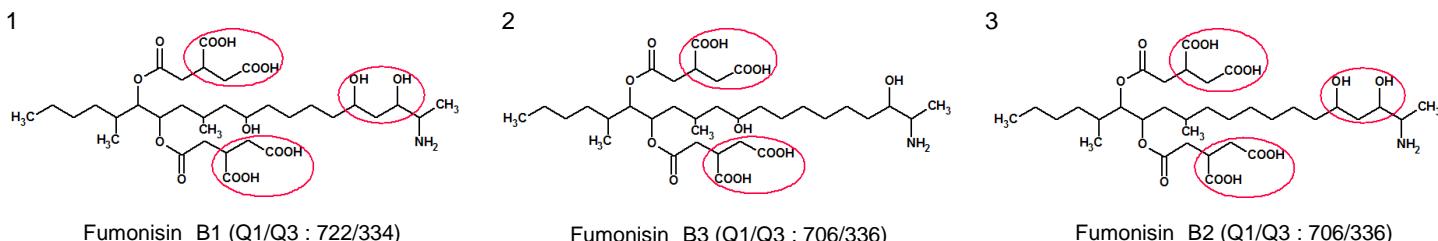
## LC/MS/MS analysis of fumonisin mycotoxins using a metal free column

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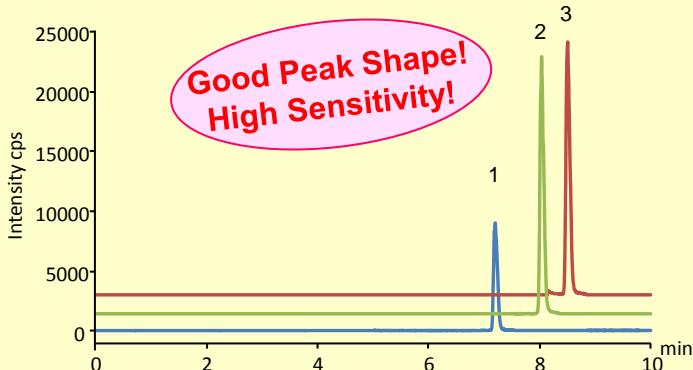
Fumonisin mycotoxins have coordinating ability to metal ions. Coordination compounds tend to adsorb onto column hardware and/or tubings that are made from stainless steel. This adsorption can be a cause of poor peak shape or sample carry-over.

YMC-Triart [metal free column] is effective for coordination compounds and contribute to reliable analysis.

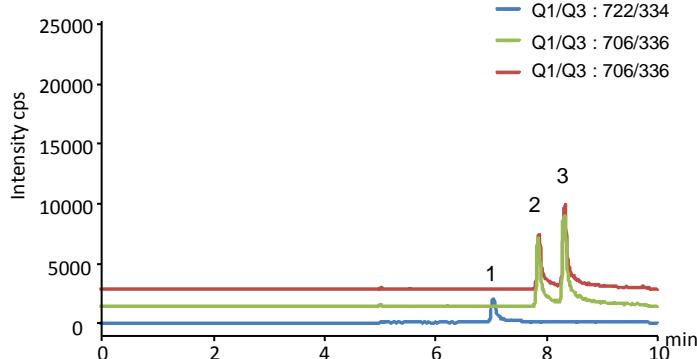
## LC/MS/MS analysis of fumonisins with YMC-Triart C18



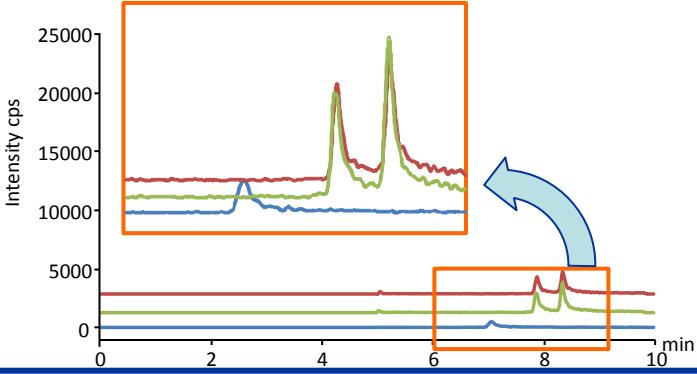
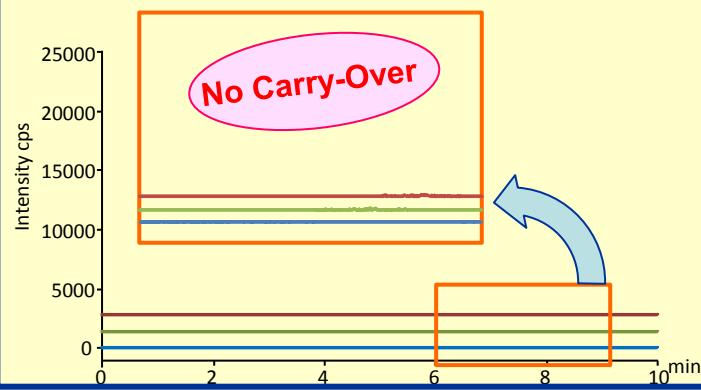
**Metal free column**  
Product number :TA12S03-15Q1PTP



**Standard column**  
Product number :TA12S03-15Q1PTH



## Blank run after the analysis of fumonisins standard



Column	: YMC-Triart C18 (3 µm, 12 nm) 150 X 2.1 mmI.D.
Eluent	: A) water/HCOOH (100/0.1) B) acetonitrile 25-50%B (0-5 min), 50% B (5-8 min), 50-90% B (8-10 min)
Flow rate	: 0.2 mL/min
Temperature	: 40°C
Detection	: ESI, positive Scheduled MRM (Metal free column) MRM (Standard column)
Injection	: 5 µL (0.1 µg/mL)
Instrument	: LC) Shimadzu Prominence UFC-LC MS) AB Sciex 3200 QTRAP

- The metal free column showed excellent peak shape on Fumonisins analysis, while the regular column showed severe tailing peak shape due to interaction between the sample and the hardware.
- No carry-over was observed on the metal free column, while the regular column had sample carry-over caused by adsorption of the sample on the hardware.
- The YMC Triart C18 metal free column gives excellent peak shape for these coordination compounds and contributes to reliable analysis.