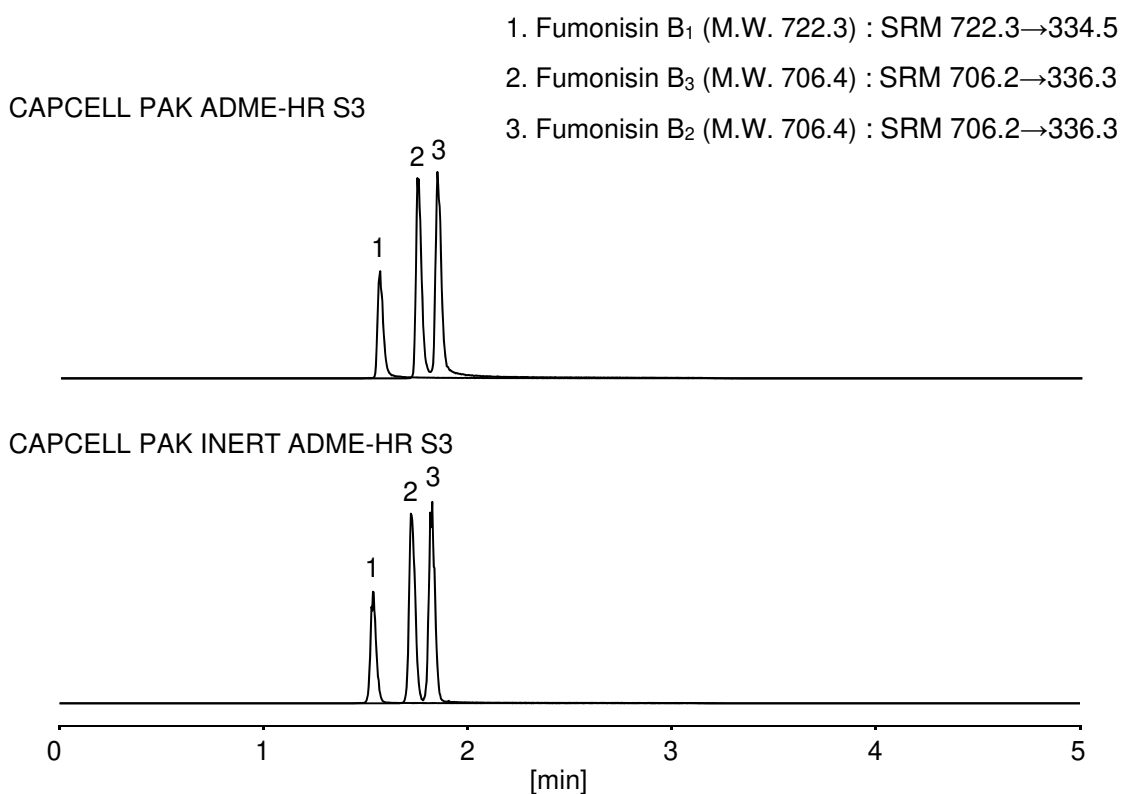


Fumonisin is a fungal toxin produced by molds of the genus *Fusarium*. It has a metal-coordinating functional group in the molecule, and fumonisin adsorbs on stainless steel columns, causing large peak tailing. Here is an example of comparative analysis using a CAPCELL PAK INERT ADME-HR S3 (2.0 mm i.d. x 50 mm) coated with PEEK inside the column tube and a CAPCELL PAK ADME-HR S3 (2.1 mm i.d. x 50 mm) with regular stainless steel tube. The inert column greatly improved peak shape by minimizing the influence of the stainless steel.

**【HPLC Conditions】**

Column size : 2.0 or 2.1 mm i.d. x 50 mm
Mobile phase : A) 0.1 vol% HCOOH B) 0.1 vol% HCOOH, CH₃CN
B 20 % (0 min) -> 80 % (2.5 min) Gradient
Flow rate : 400 μL/min
Temperature : 40 °C
Detection : MS/MS
Ionization : ESI Positive
Inj. vol. : 5 μL (1 μg/mL)
Sample dissolved in : H₂O