

CoreFocus Report

No.580

LC-MS

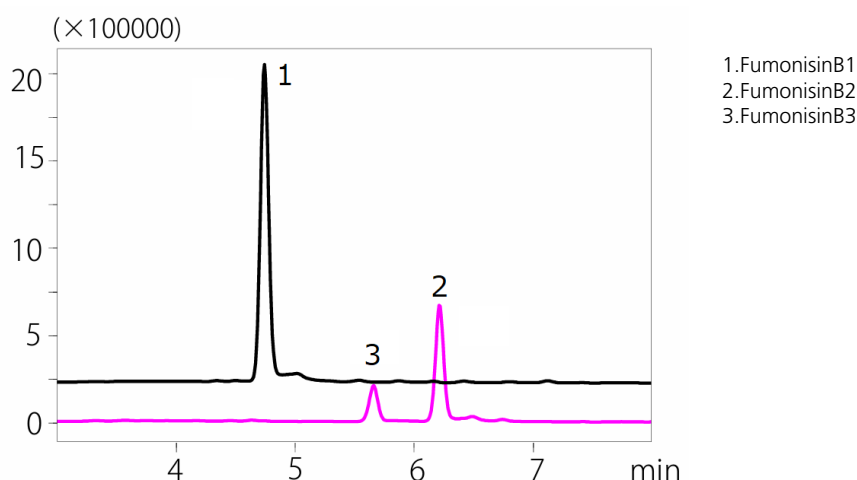
Reversed-phase

Shim-pack™ Series

Shim-pack GISS-HP C18

Analysis of Fumonisinin Livestock Feed Blend

Keywords: Mycotoxins, Grain, Food safety



[HPLC conditions] (Nexera™ X3)

Column : Shim-pack GISS-HP C18,
150 mm x 2.1 mm I.D., 3 μm*1
Mobile phase A : 0.1 % formic acid aq.
Mobile phase B : Acetonitrile
Time program : 30 % B(0 min) → 50 % B(5-8 min) →
95 % B(8.01-10 min) → 30 % B(10.01 min)
Flow rate : 0.2 mL/min
Column oven : 40 °C
Injection vol. : 3 μL
Needle rinse
conditions : R0: Acetonitrile/water = 1:1
R1: 10 mmol/L sodium citrate aq.
R2: 1 % formic acid aq./Methanol/
Acetonitrile/isopropyl alcohol = 1:1:1:1
Rinse type: needle inner and outer surface rinse
Needle rinse program:
Needle inner surface rinse: R1 – R2 – R0
Needle outer surface rinse: R2

1*: P/N : 227-30084-03

[MS conditions] (LCMS-2050)

Ionization : ESI/APCI(DUIS™), Positive mode
Mode : SIM
(FB1: *m/z* 722.40, FB2/FB3: *m/z* 706.40)
Nebulizing gas flow : 1.5 L/min
Drying gas flow : 3.0 L/min
Heating gas flow : 5.0 L/min
DL temp. : 200 °C
Desolvation temp. : 500 °C
Interface voltage : +1.0 kV

Source : Application News 01-00649 ([JP,ENG](#))

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