YMC SEPARATION TECHNOLOGY

HPLC DATA SHEET

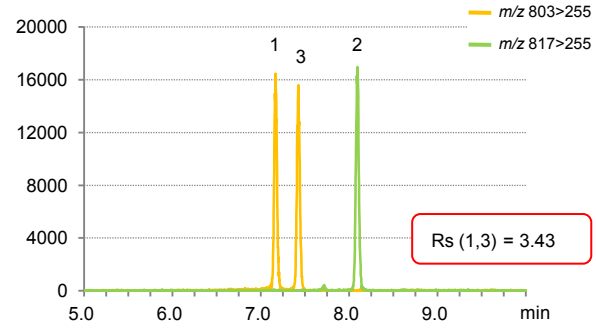
LC/MS/MSによる下痢性貝毒の分析
Analysis of diarrhetic shellfish poisoning by LC/MS/MS

D150706B

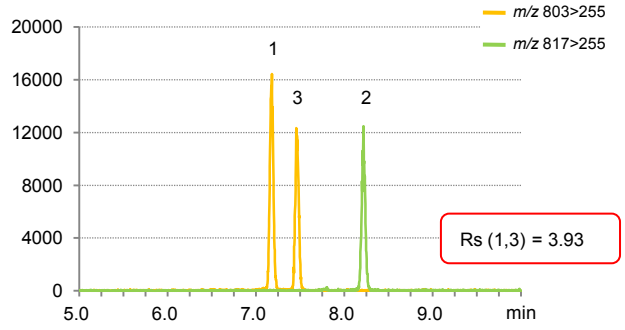
Procedure

Extraction → Hydrolysis → Purification → Measurement

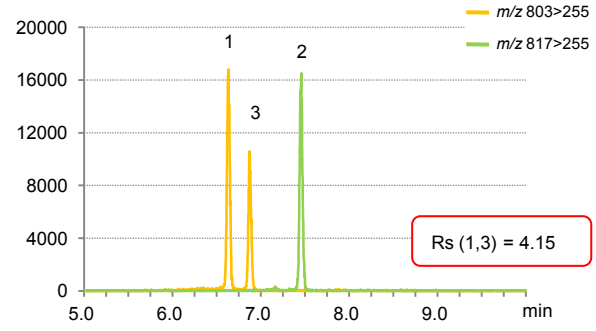
YMC-Triart C18 (1.9 μm, 12 nm)



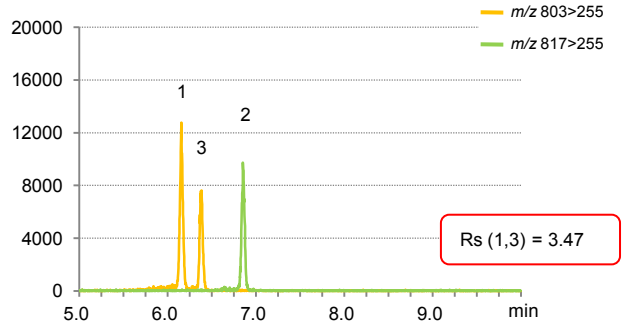
YMC-Triart C18 ExRS (1.9 μm, 8 nm)



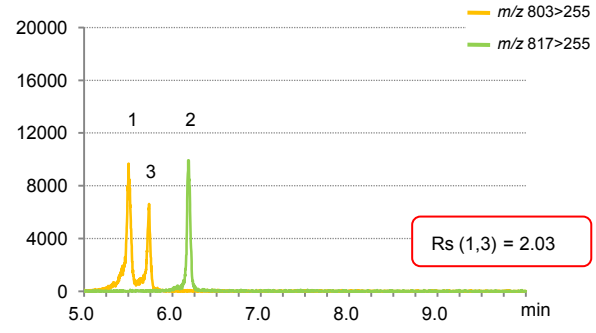
YMC-Triart C8 (1.9 μm, 12 nm)



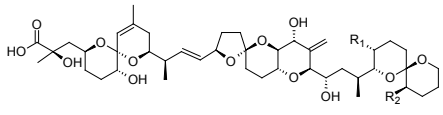
YMC-Triart Phenyl (1.9 μm, 12 nm)



YMC-Triart PFP (1.9 μm, 12 nm)



Okadaic acid



	R_1	R_2
1. Okadaic acid (OA)	CH_3	H
2. Dinophysistoxin-1 (DTX1)	CH_3	CH_3
3. Dinophysistoxin-2 (DTX2)	H	CH_3

Courtesy of Japan Frozen Foods Inspection Corporation

Column : 75 X 2.1 mmI.D.
Eluent : A) water containing 2 mM $HCOONH_4$ and 50 mM HCOOH
B) acetonitrile/water (95/5) containing 2 mM $HCOONH_4$ and 50 mM HCOOH
40%B (0-2.5 min), 40%-100%B (2.5-7.5 min), 100%B (7.5-12.5 min)
Temperature : 40℃
Flow rate : 0.2 mL/min
Detection : AB SCIEX QTRAP® 4500, ESI, Negative, MRM
Okadaic acid (*m/z* 803>255)
Dinophysistoxin-1 (*m/z* 817>255)
Dinophysistoxin-2 (*m/z* 803>255)
Sample : Matrix matched standards
Injection : 5 μL (5 ppb)