

**CoreFocus**  
**Report**

**No.452**

LC-MS

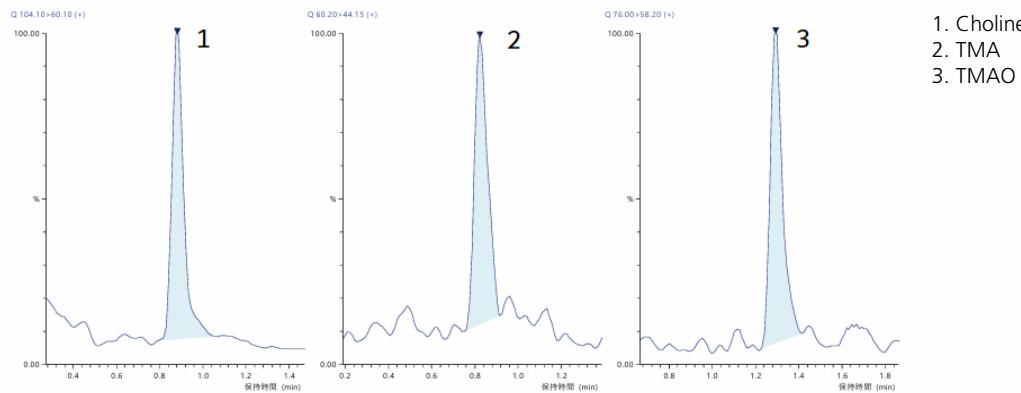
HILIC

Shim-pack™ Series

**Shim-pack Velox™ HILIC**

**Analysis of Choline and its Metabolites**

**Keywords: Biomarker analysis, Trimethylamine (TMA), Trimethylamine N-oxide (TMAO)**



System	:	Nexera™ X2
Column	:	Shim-pack Velox HILIC (50 mm L x 2.1 mm I.D., 2.7 $\mu$ m), P/N : 227-32025-02
Mobile phase	:	A) 50 mM ammonium formate + 0.1% formic acid—Water B) Acetonitrile
Time Program	:	B Conc. 70% (0.0 min) $\rightarrow$ 30% (2.40 min) $\rightarrow$ 5% (2.41 – 3.00 min) $\rightarrow$ 70% (3.41 – 4.00 min)
Flow rate	:	0.4 mL/min
Column temp.	:	40 °C
Injection vol.	:	3 $\mu$ L
System	:	LCMS-8060
Ionization	:	ESI (positive mode)
Nebulizing gas flow	:	3 L/min
Drying gas flow	:	10 L/min
Heating gas flow	:	10 L/min
DL temp.	:	250 °C
Block heater temp.	:	400 °C
Interface temp.	:	OFF

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