Thyroid Hormones by LC-MS/MS (I)

ACE®
Ultra-inert
UHPLC & HPLC Columns

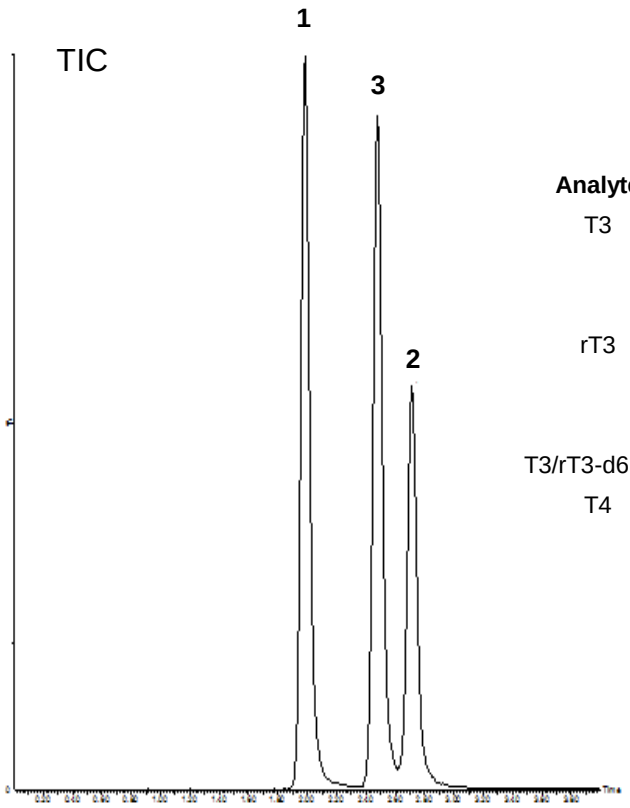
Application #AN2170

Conditions

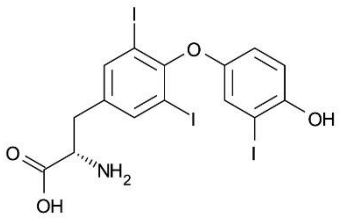
Column:	ACE Excel 2 C18-AR
Dimensions:	100 x 2.1 mm
Part Number:	EXL-109-1002U
Mobile Phase:	A: 2 mM ammonium acetate, 0.1% formic acid in H_2O B: 2 mM ammonium acetate, 0.1% formic acid in MeOH

Time (mins)	%B
0.0	60
3.0	77
3.1	60

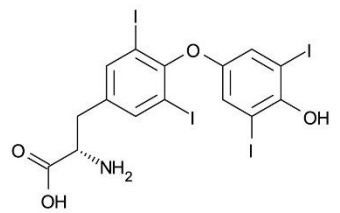
Flow Rate:	0.4 mL/min
Injection:	10 µL
Temperature:	40 °C
Detection:	XEVO TQS triple quad MS Desolvation temperature: 500 °C Ion source temperature: 150 °C Positive mode ESI, MRM



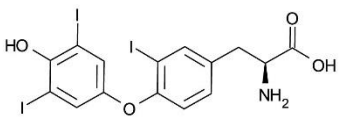
Analyte	Q1 (Da)	Q3 (Da)
T3	651.8	605.8
	(651.8)	(507.8)
	(651.8)	(478.9)
rT3	651.8	605.8
	(651.8)	(507.8)
	(651.8)	(478.9)
T3/rT3-d6 I.S.	657.8	611.8
T4	777.7	731.7
	(777.7)	(351)
	(777.7)	(633.8)



1. T3
(Tri-iodothyronine)



2. T4
(Thyroxine)



3. rT3
(Reversed tri-iodothyronine)

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