Oxysterols by LC-MS/MS

ACE® Ultra-inert UHPLC & HPLC Columns

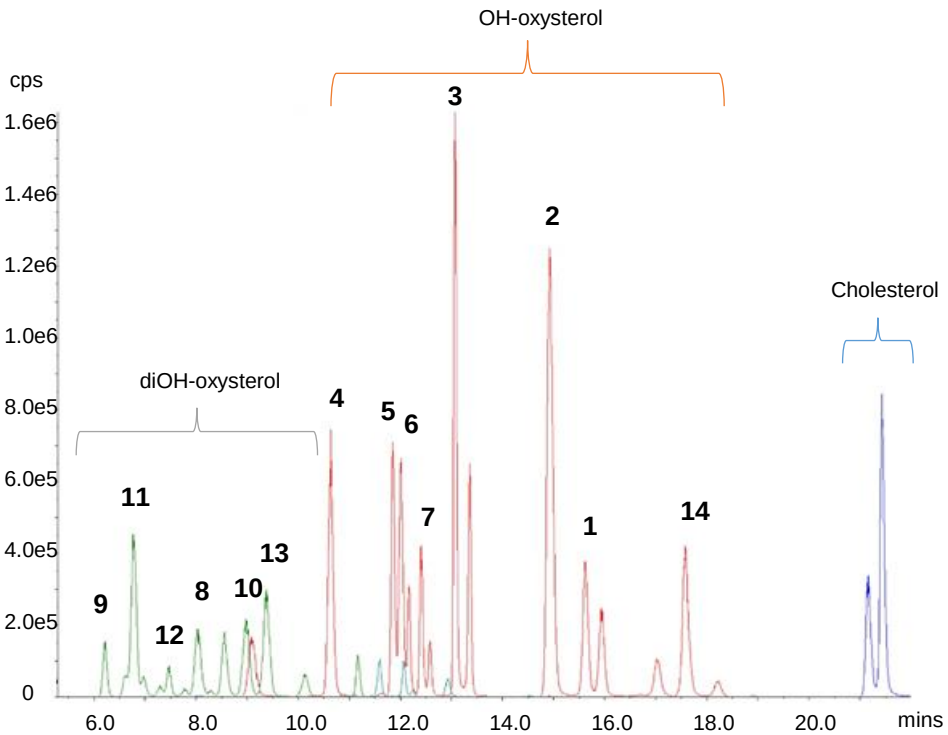
Application #**AN2380**

Conditions

Column:	ACE 3 C18-AR
Dimensions:	150 x 2.1 mm
Part Number:	ACE-119-1502
Mobile Phase:	A: 0.1% formic acid in H_2O:MeOH (70:30 v/v)
	B: 0.1% formic acid in MeOH

Time (mins)	%B
0.0	20
1.0	20
3.5	60
8.5	60
11.5	80
16.5	80
20.0	90
22.5	90
25.0	20

Flow Rate:	0.3 mL/min
Temperature:	40 °C
Detection:	AB SCIEX API 4000 MS
	Turbo IonSpray, positive mode MRM
Sample:	Derivatised with Girard P reagent



1. 7α-Hydroxycholesterol (*m/z* 534.4 → 455.4)
2. 7β-Hydroxycholesterol (*m/z* 534.4 → 455.4)
3. 22(S)-Hydroxycholesterol (*m/z* 534.4 → 455.4)
4. 22(R)-Hydroxycholesterol (*m/z* 534.4 → 455.3)
5. 24(S)-Hydroxycholesterol (*m/z* 534.5 → 455.4)
6. 25-Hydroxycholesterol (*m/z* 534.4 → 455.4)
7. 27-Hydroxycholesterol (*m/z* 534.4 → 455.4)
8. 7α,25-Dihydroxycholesterol (*m/z* 550.4 → 471.4)
9. 7β,25-Dihydroxycholesterol (*m/z* 550.4 → 471.4)
10. 7α,27-Dihydroxycholesterol (*m/z* 550.4 → 471.4)
11. 7β,27-Dihydroxycholesterol (*m/z* 550.4 → 471.4)
12. 3β,25-Dihydroxy-5-cholesten-7-one (*m/z* 550.4 → 471.4)
13. 3β,27-Dihydroxy-5-cholesten-7-one (*m/z* 550.4 → 471.4)
14. 5α,6α-Epoxycholestanol (*m/z* 534.4 → 455.4)

Reproduced from supplement (pnas.org/content/suppl/2014/08/01/1322807111) to 'Oxysterols are agonist ligands of RORγt and drive Th17 cell differentiation', PNAS, 111 (33), 12163-12168 (2014)

© 2015 ACT Ltd. All rights reserved. All products are available worldwide.