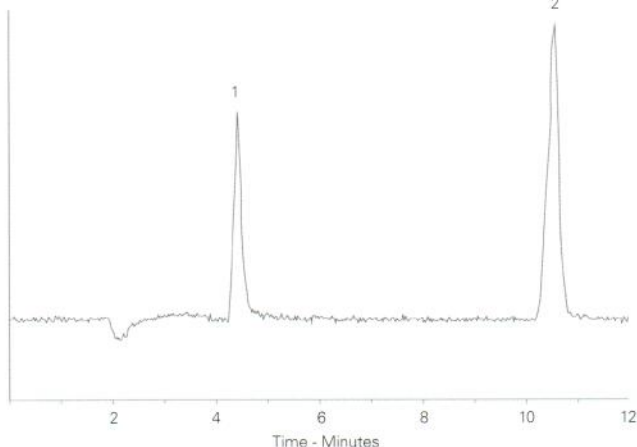
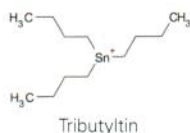
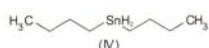


## Conditions

**Column:** ACE 3 C18  
**Dimensions:** 150 x 2.1 mm  
**Part Number:** ACE-111-1502  
**Mobile Phase:** H<sub>2</sub>O/MeCN/acetic acid/TEA  
 (23:65:12:0.05 v/v/v/v)  
**Flow Rate:** 0.2 mL/min  
**Detection:** ICP-MS

## Analytes

1. Dibutyltin
2. Tributyltin



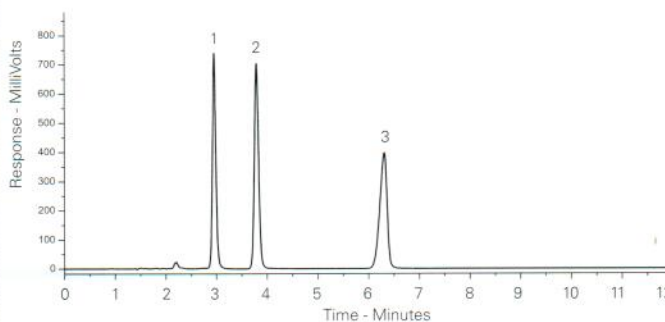
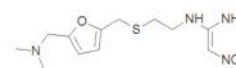
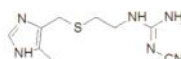
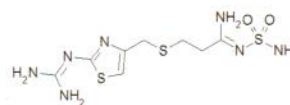
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## Conditions

**Column:** ACE 5 C18  
**Dimensions:** 150 x 4.6 mm  
**Part Number:** ACE-121-1546  
**Mobile Phase:** MeCN/10 mM ammonium  
 bicarbonate pH 8.0  
 in H<sub>2</sub>O (18:82)  
**Flow Rate:** 1 mL/min  
**Temperature:** Ambient  
**Detection:** UV, 254 nm

## Analytes

1. Famotidine
2. Cimetidine
3. Ranitidine



## Oxysterols by LC-MS/MS

## Conditions

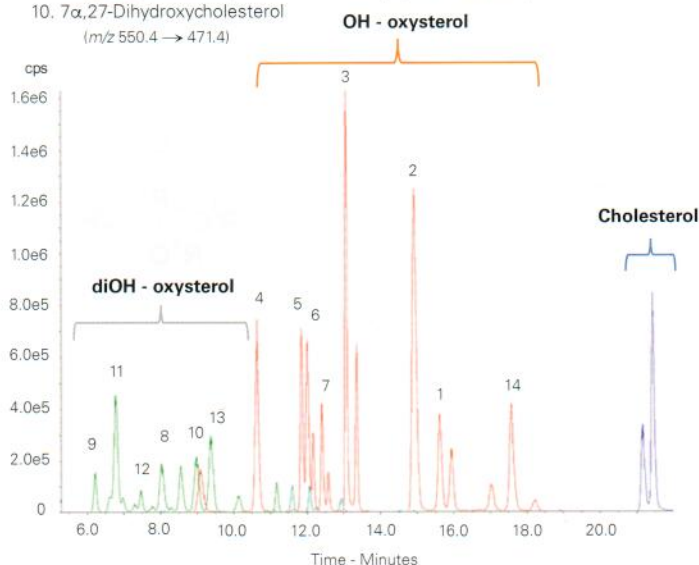
**Column:** ACE 3 C18-AR  
**Dimensions:** 150 x 2.1 mm  
**Part Number:** ACE-119-1502  
**Mobile Phase:** A: 0.1% formic acid in H<sub>2</sub>O/  
 MeOH (70:30 v/v)  
 B: 0.1% formic acid in MeOH  
**Gradient:**

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:** Derivatized with Girard  
 P reagent

## Analytes

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



Reproduced from supplement (pnas.org/content/suppl/2014/08/01/1322807111) to 'Oxysterols are agonist ligands of ROR $\gamma$ t and drive Th17 cell differentiation', PNAS, 111 (33), 12163-12168 (2014)