

InertSearch™ for LC

Inertsil™ Applications

Simultaneous analysis of bile acids using LC/MS/MS

Data No. LL030-0000

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Conditions

Column : InertSustain C18
(2 μ m, 150 x 2.1 mm I.D.)
Column Cat. No. : 5020-14355
Eluent : A) 0.1% HCOOH in H₂O
B) CH₃CN/CH₃OH/HCOOH = 50/50/0.1, v/v/v

Time(min)	A(vol%)	B(vol%)
0	60	40
10	45	55
20	0	100

Flow rate : 0.4 mL/min
Col. Temp. : 40 °C
Detection : MS/MS (ESI, Negative, MRM)
Injection Vol. : 5 μ L
Sample : Standard solution

Analyte	Precursor ion (m/z)	Product ion (m/z)
1. Taurine-conjugated α -muricholic acid (TaMCA)	514.2	80.0
2. Taurine-conjugated ω -muricholic acid (TwMCA)	514.2	80.0
3. Taurine-conjugated β -muricholic acid (TbMCA)	514.2	80.0
4. Taurine-conjugated γ -muricholic acid (THCA)	514.2	80.0
5. Taurine-conjugated ursodeoxycholic acid (TUDCA)	498.2	80.0
6. Taurine-conjugated hyodeoxycholic acid (THDCA)	498.2	80.0
7. Glycine-conjugated α -muricholic acid (GaMCA)	464.2	74.0
8. Glycine-conjugated β -muricholic acid (GbMCA)	464.2	74.0
9. Taurine-conjugated cholic acid (TCA)	514.2	80.0
10. Glycine-conjugated γ -muricholic acid (GHCA)	464.2	74.0
11. Glycine-conjugated ursodeoxycholic acid (GUDCA)	448.2	74.0
12. ω -Muricholic acid (ω MCA)	453.2	407.2
13. Glycine-conjugated hyodeoxycholic acid (GHDCA)	448.2	74.0
14. α -Muricholic acid (α MCA)	453.2	407.2
15. Taurine-conjugated chenodeoxycholic acid (TCDCa)	498.2	80.0
16. β -Muricholic acid (β MCA)	453.2	407.2
17. Glycine-conjugated cholic acid (GCA)	464.2	74.0
18. Taurine-conjugated deoxycholic acid (TDCA)	498.2	80.0
19. γ -Muricholic acid (HCA)	453.2	407.2
20. Ursodeoxycholic acid (UDCA)	437.2	391.2
21. Hyodeoxycholic acid (HDCA)	437.2	391.2
22. Taurine-conjugated lithocholic acid (TLCA)	482.2	80.0
23. Cholic acid (CA)	453.2	407.2
24. Glycine-conjugated chenodeoxycholic acid (GCDCA)	448.2	74.0
25. Glycine-conjugated deoxycholic acid (GDCA)	448.2	74.0
26. Chenodeoxycholic acid (CDCA)	437.2	391.2
27. Glycine-conjugated lithocholic acid (GLCA)	432.2	74.0
28. Deoxycholic acid (DCA)	437.2	391.2
29. Lithocholic acid (LCA)	421.3	391.2

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