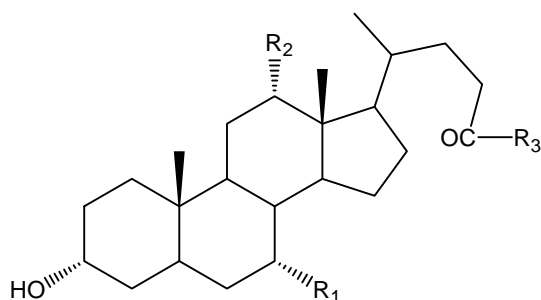


- |   |   |
|---|---|
| 1. タウロウルソデオキシコール酸<br>Tauroursodeoxycholic acid (M.W. 499.7)<br>(syn. TUDCA) | 7. グリコデオキシコール酸<br>Glycodeoxycholic acid (M.W. 449.6)<br>(syn. GDCA) |
| 2. タウロコール酸<br>Taurocholic acid (M.W. 515.7)<br>(syn. TCA)                   | 8. ウルソデオキシコール酸<br>Ursodesoxycholic acid (M.W. 410.6)<br>(syn. UDCA) |
| 3. グリココール酸<br>Glycocholic acid (M.W. 465.6)<br>(syn. GCA)                   | 9. ケノデオキシコール酸<br>Chenodeoxycholic acid (M.W. 410.6)<br>(syn. CDCA)  |
| 4. コール酸<br>Cholic acid (M.W. 408.6)<br>(syn. CA)                            | 10. デオキシコール酸<br>Deoxycholic acid (M.W. 410.6)<br>(syn. DCA)         |
| 5. タウロケノデオキシコール酸<br>Taurochenodeoxycholic acid (M.W. 499.7)<br>(syn. TCDCA) | 11. グリコリトコール酸<br>Glycolithocholic acid (M.W. 433.6)<br>(syn. GLCA)  |
| 6. タウロデオキシコール酸<br>Taurodeoxycholic acid (M.W. 499.7)<br>(syn. TDCA)         |   |

**【HPLC Conditions】**

Column : CAPCELL PAK C<sub>18</sub> MGII S5 ; 2.0 mm i.d. x 150 mm  
 Mobile phase : A) 10 mmol/L CH<sub>3</sub>COONH<sub>4</sub>  
 B) CH<sub>3</sub>OH  
 B 50 % (0.0 min) -> 95 % (45.0 min) -> 95 % (50.0 min) -> 50 %  
 (50.1min) Gradient  
 Flow rate : 200 μL/min  
 Temperature : 40 °C  
 Detection : ESI, positive  
 Inj. vol. : 1 μL  
 Sample dissolved in : Each compound was separately dissolved in methanol (5 mg/mL).  
 20-μL aliquots of all the eleven solutions were mixed together.  
 180 μL of methanol, 100 μL of KOH (100 mmol/L), 500 μL of the  
 mobile phase were added to the mixture (the final concentration :  
 100 μg/mL each).  
 ※ 1 μg/mL = 1 ppm



Compound name		R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>
Free original compound	Cholic acid (CA)	-OH	-OH	-OH
	Deoxycholic acid (DCA)	-H	-OH	-OH
	Chenodeoxycholic acid (CDCA)	-OH	-H	-OH
	Ursodesoxycholic acid (UDCA) *1	-OH	-H	-OH
Conjugate	Glycocholic acid (GCA)	-OH	-OH	-NHCH <sub>2</sub> COOH
	Glycodeoxycholic acid (GDCA)	-H	-OH	-NHCH <sub>2</sub> COOH
	Glycolithocholic acid (GLCA)	-H	-H	-NHCH <sub>2</sub> COOH
	Taurocholic acid (TCA)	-OH	-OH	-NH(CH <sub>2</sub> ) <sub>2</sub> SO <sub>3</sub> H
	Taurodeoxycholic acid (TDCA)	-H	-OH	-NH(CH <sub>2</sub> ) <sub>2</sub> SO <sub>3</sub> H
	Taurochenodeoxycholic acid (TCDCA)	-OH	-H	-NH(CH <sub>2</sub> ) <sub>2</sub> SO <sub>3</sub> H
	Tauroursodeoxycholic acid (TUDCA) *1	-OH	-H	-NH(CH <sub>2</sub> ) <sub>2</sub> SO <sub>3</sub> H

\*1 UDCA is 7β-stereoisomer of CDCA. TUDCA is 7β-stereoisomer of TCDCA.