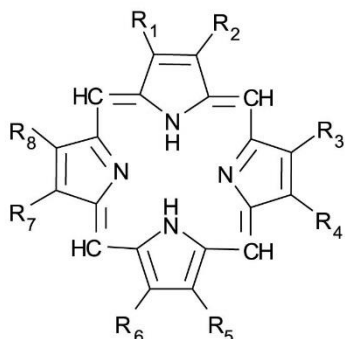


## Conditions

Column: ACE 3 C18-PFP  
Dimensions: 75 x 2.1 mm  
Part Number: ACE-1110-7502  
Mobile Phase: A: 0.1% formic acid in H<sub>2</sub>O/MeCN (95:5 v/v)  
B: 0.1% formic acid in H<sub>2</sub>O/MeCN (5:95 v/v)

Time (mins)	%B
0.0	30
10.0	50
10.2	100
35.0	100

Flow Rate: 0.1 mL/min  
Injection: 5 µL  
Temperature: 25 °C  
Detection: SCIEX API 2000 triple quad MS  
TurbolonSpray interface  
Positive ESI  
Ion source temperature: 200 °C  
Capillary voltage: 5 kV



Where:

A: -CH<sub>2</sub>COOH  
E: -CH<sub>2</sub>CH<sub>3</sub>  
M: -CH<sub>3</sub>  
P: -CH<sub>2</sub>CH<sub>2</sub>COOH  
V: -CH=CH<sub>2</sub>

1. Uroporphyrin I  
(R<sub>1</sub>:A, R<sub>2</sub>:P, R<sub>3</sub>:A, R<sub>4</sub>:P, R<sub>5</sub>:A, R<sub>6</sub>:P, R<sub>7</sub>:A, R<sub>8</sub>:P)  
(*m/z* 831 → 727, 623, 655)

2. 7-Carboxyporphyrin I  
(R<sub>1</sub>:A, R<sub>2</sub>:P, R<sub>3</sub>:A, R<sub>4</sub>:P, R<sub>5</sub>:A, R<sub>6</sub>:P, R<sub>7</sub>:M, R<sub>8</sub>:P)  
(*m/z* 787 → 683, 670, 623)

3. 6-Carboxyporphyrin I  
(R<sub>1</sub>:M, R<sub>2</sub>:P, R<sub>3</sub>:A, R<sub>4</sub>:P, R<sub>5</sub>:A, R<sub>6</sub>:P, R<sub>7</sub>:M, R<sub>8</sub>:P)  
(*m/z* 743 → 639, 507, 521)

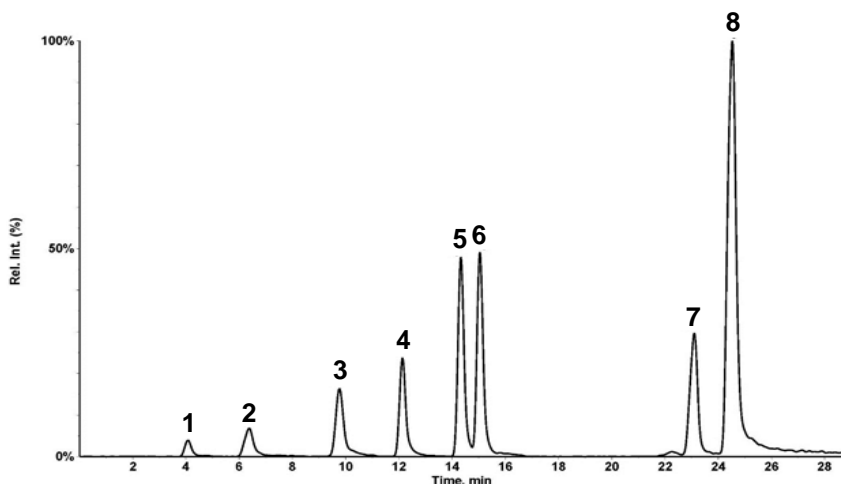
4. 5-Carboxyporphyrin I  
(R<sub>1</sub>:M, R<sub>2</sub>:P, R<sub>3</sub>:M, R<sub>4</sub>:P, R<sub>5</sub>:A, R<sub>6</sub>:P, R<sub>7</sub>:M, R<sub>8</sub>:P)  
(*m/z* 699 → 463, 595, 640)

5. Coproporphyrin I  
(R<sub>1</sub>:M, R<sub>2</sub>:P, R<sub>3</sub>:M, R<sub>4</sub>:P, R<sub>5</sub>:M, R<sub>6</sub>:P, R<sub>7</sub>:M, R<sub>8</sub>:P)  
(*m/z* 655 → 537, 596, 523)

6. Coproporphyrin III  
(R<sub>1</sub>:M, R<sub>2</sub>:P, R<sub>3</sub>:M, R<sub>4</sub>:P, R<sub>5</sub>:M, R<sub>6</sub>:P, R<sub>7</sub>:P, R<sub>8</sub>:M)  
(*m/z* 655 → 537, 596, 523)

7. Mesoporphyrin IX  
(R<sub>1</sub>:M, R<sub>2</sub>:E, R<sub>3</sub>:M, R<sub>4</sub>:E, R<sub>5</sub>:M, R<sub>6</sub>:P, R<sub>7</sub>:M, R<sub>8</sub>:P)  
(*m/z* 567 → 449, 479, 508)

8. Protoporphyrin IX  
(R<sub>1</sub>:M, R<sub>2</sub>:V, R<sub>3</sub>:M, R<sub>4</sub>:V, R<sub>5</sub>:M, R<sub>6</sub>:P, R<sub>7</sub>:P, R<sub>8</sub>:M)  
(*m/z* 563 → 445, 504, 489)



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