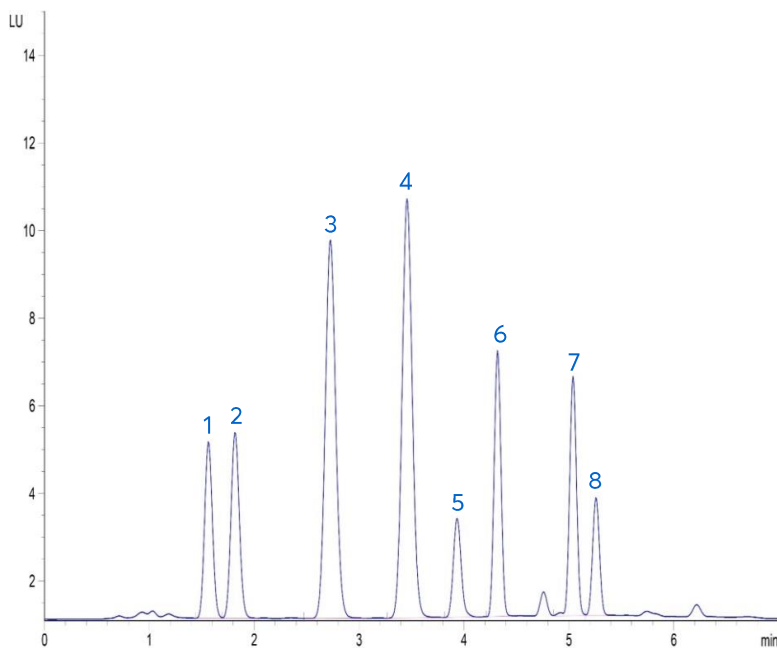


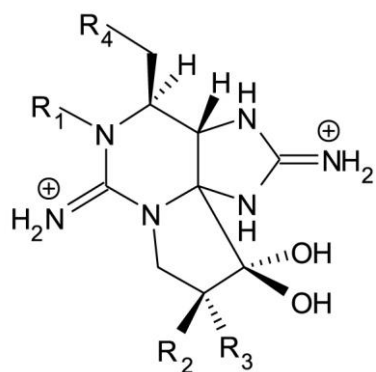
# Paralytic Shellfish Poisoning (PSP) Toxins



1. dcGTX2,3
2. GTX1/4 + dcGTX2,3
3. C1,2
4. dcSTX + dcNEO
5. dcSTX + NEO
6. GTX2/3 + GTX1/4
7. GTX5
8. STX + NEO

## STRUCTURES

PST Variant	R1	R2	R3	R4
STX	H	H	H	H <sub>2</sub> N-COO
NEO	OH	H	H	H <sub>2</sub> N-COO
GTX1	OH	H	OSO <sub>3</sub> <sup>-</sup>	H <sub>2</sub> N-COO
GTX2	H	H	OSO <sub>3</sub> <sup>-</sup>	H <sub>2</sub> N-COO
GTX3	H	OSO <sub>3</sub> <sup>-</sup>	H	H <sub>2</sub> N-COO
GTX4	OH	OSO <sub>3</sub> <sup>-</sup>	H	H <sub>2</sub> N-COO
GTX5 (B1)	H	H	H	O <sub>3</sub> S-NH-COO
C1	H	H	OSO <sub>3</sub> <sup>-</sup>	O <sub>3</sub> S-NH-COO
C2	H	OSO <sub>3</sub> <sup>-</sup>	H	O <sub>3</sub> S-NH-COO
dcSTX	H	H	H	OH
dcNEO	OH	H	H	OH
dcGTX1	OH	H	OSO <sub>3</sub> <sup>-</sup>	OH
dcGTX2	H	H	OSO <sub>3</sub> <sup>-</sup>	OH
dcGTX3	H	OSO <sub>3</sub> <sup>-</sup>	H	OH



# Method Details

## CONDITIONS

Column: Avantor® ACE® UltraCore 5 SuperC18  
 Particle Size: 5 µm  
 Dimensions: 150 x 4.6 mm  
 Mobile Phase: A: 0.1 M ammonium formate in H<sub>2</sub>O  
 B: 0.1 M ammonium formate in H<sub>2</sub>O/MeOH (95:5 v/v)

Gradient:

Time (mins)	% B
0.00	0
2.00	0
4.00	80
5.50	80
5.51	0
7.00	0

Flow Rate: 2 mL/min  
 Injection: 30 µL  
 Temperature: 20 °C  
 Detection: Fluorescence  $\lambda_{Ex}$  340 nm,  $\lambda_{Em}$  395 nm  
 Sample: Prechromatographic oxidation with hydrogen peroxide and periodate

## ORDERING TABLE

Product	Details	Size	Part Number
Avantor® ACE® UltraCore 5 SuperC18	HPLC Column	150 x 4.6 mm	CORE-5A-1546U

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