

Conditions

Column: ACE Excel 3 CN-ES
ACE Excel 3 CN
ACE Excel 3 C18

Dimensions: 50 x 2.1 mm

Part Number: EXL-1113-0502U (ACE Excel 3 CN-ES),
EXL-114-0502U (ACE Excel 3 CN),
EXL-111-0502U (ACE Excel 3 C18)

Mobile Phase: A: 0.1% formic acid in H₂O
B: 0.1% formic acid in MeOH/H₂O (90:10 v/v)

Gradient:

Time (mins)	%B
0	3
5	100

Flow Rate: 0.6 mL/min

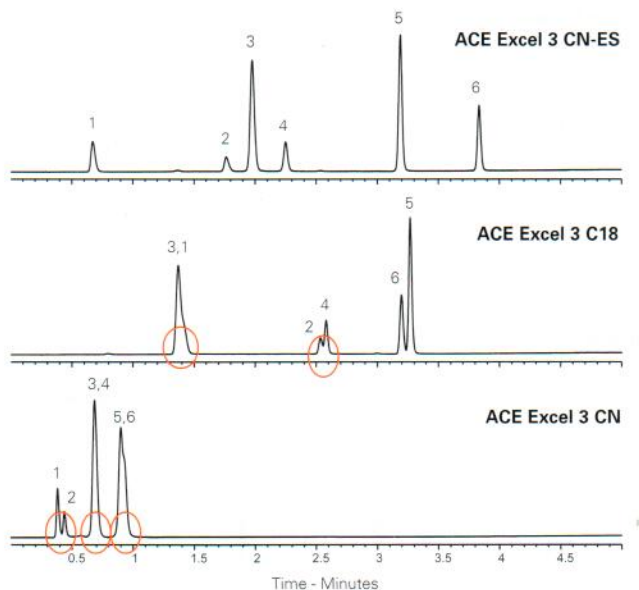
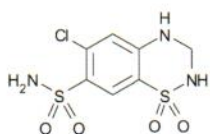
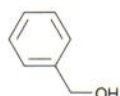
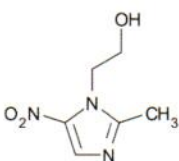
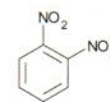
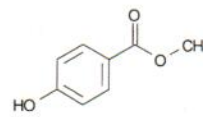
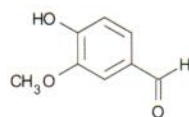
Injection: 1 µL

Temperature: 40 °C

Detection: UV, 254 nm

Analytes

1. Metronidazole
2. Benzyl alcohol
3. Hydrochlorothiazide
4. Vanillin
5. Methyl paraben
6. 1,2-Dinitrobenzene



Amino Acid Profile of Edible Stink Bugs by LC-MS

Conditions

Column: ACE 5 C18

Dimensions: 250 x 4.6 mm

Part Number: ACE-121-2546

Mobile Phase: A: 0.01% formic acid in H₂O
B: 0.01% formic acid in MeCN

Gradient:

Time (mins)	%B
0.0	5
3.0	30
6.0	30
7.5	80
10.5	80
13.0	100
18.0	100
20.0	5
22.0	5

Analytes

1. Arginine
2. Isoleucine
3. Leucine
4. Proline
5. Valine
6. Methionine
7. Hydroxyproline
8. Tyrosine
9. Lysine
10. Phenylalanine

Flow Rate: 0.7 mL/min

Injection: 1 µL

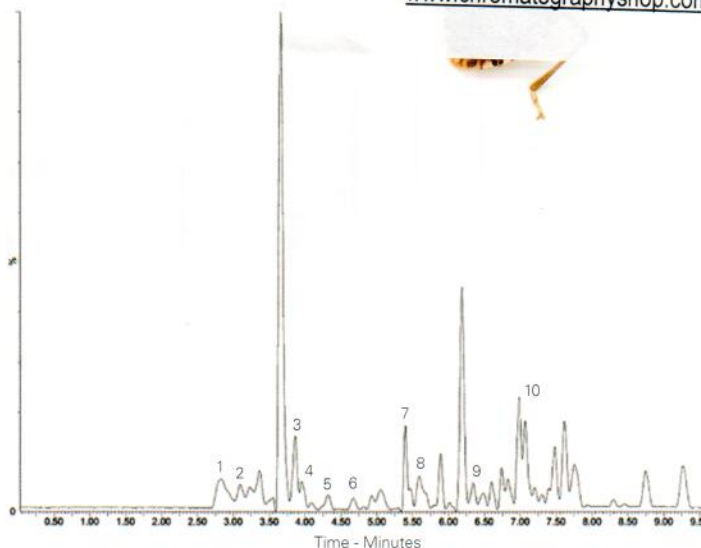
Detection: Waters QToF-MS
ESI in positive ion mode
Scan range: *m/z* 100-700

Sample: Profile of edible stink bugs
(*Encosternum delegorguei* Spinola)
after acid hydrolysis of extracted proteins

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Musundire R, Osuga IM, Cheseto X, Irungu J, Torto B (2016) Aflatoxin Contamination Detected in Nutrient and Anti-Oxidant Rich Edible Stink Bug Stored in Recycled Grain Containers. PLoS ONE 11(1): e0145914. doi:10.1371/journal.pone.0145914