

Amino Acid Profile of Edible Stink Bugs by LC-MS

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Ultra-inert
UHPLC & HPLC Columns

Application #AN3530

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

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

Flow Rate: 0.7 mL/min

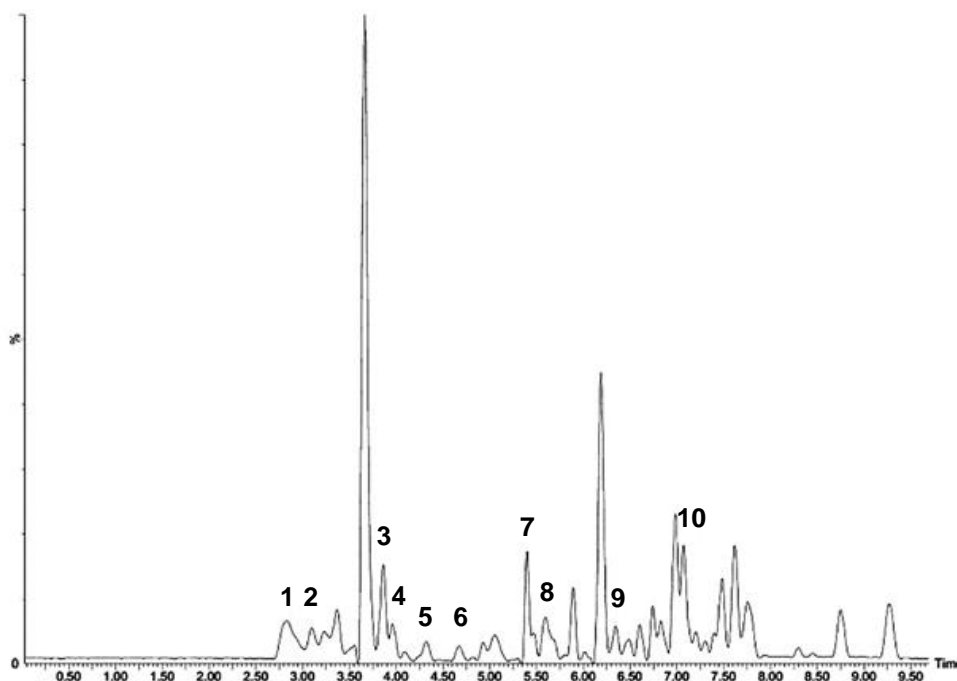
Injection: 1 µL

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



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

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

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