

## Multi-Class Screening of 243 Mycotoxins by LC/MS/MS

**Column:** Gemini® 5 µm C18 110 Å, LC Column 150 x 4.6 mm, Ea  
**Dimensions:** 150 x 4.6 mm ID  
**Order No:** 00F-4435-E0  
**Elution Type:** Gradient  
**Eluent A:** Water/methanol 90/10, containing 5mM of ammonium acetate and 1% acetic acid  
**Eluent B:** Water/methanol 3/97, containing 5mM of ammonium acetate and 1% acetic acid

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	100	0
	2	2	100	0
	3	14	0	100
	4	18	0	100
	5	18.01	100	0
	6	20.5	100	0

**Flow Rate:** 1 mL/min  
**Col. Temp.:** 25 °C  
**Detection:** Tandem Mass Spec (MS-MS) @ (25 °C)

**Detector Info:** [Sciex](https://sciex.com/products/mass-spectrometers?utm_campaign=2019%20application%20search&utm_source=phenomenex&utm_medium=referral)

Analyt

Need:

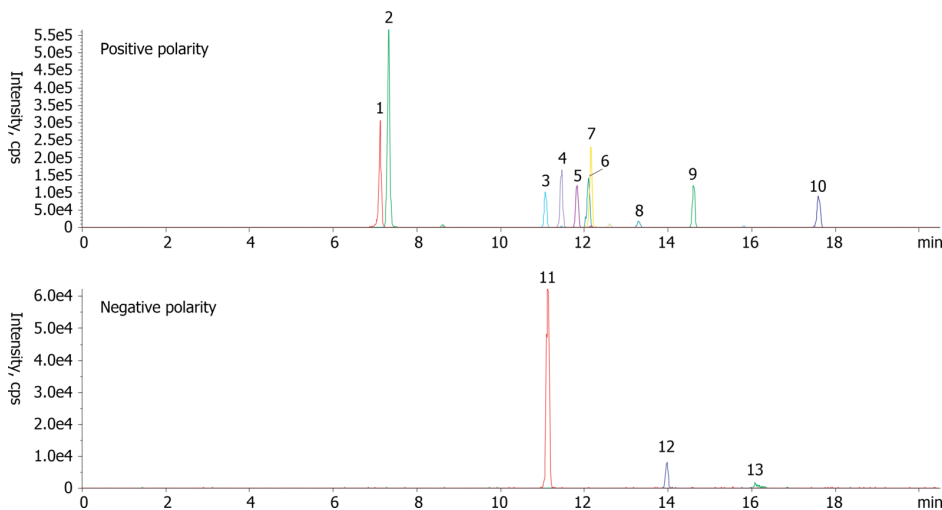
**Analyst Note:** This Application used iMethod™ Kit Order Number: KH0-8991  
 SecurityGuard™ Guard Cartridge System extends column lifetime.  
 - SecurityGuard Cartridges, Gemini C18 4 x 3.0mm ID, 10/PK Part No.: AJ0-7597  
 - Holder Part No.: KJ0-4282



Products used in this application:



20027



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### ANALYTES:

- |    |                              |    |                               |     |                                |
|----|------------------------------|----|-------------------------------|-----|--------------------------------|
| 1  | 3-Nitropropionic acid        | 41 | Methysergide                  | 81  | AAL-TA1 Toxin                  |
| 2  | Kojic acid                   | 42 | Puromycin                     | 82  | Aflatoxin B2                   |
| 3  | Moniliformin                 | 43 | Chlamydosporol                | 83  | Ergocryptine                   |
| 4  | Ustiloxin B                  | 44 | Verrucarol                    | 84  | Erythromycin                   |
| 5  | Elymoclavine                 | 45 | 15-Acetyl-deoxynivalenol      | 85  | Pseurotin A                    |
| 6  | Nivalenol                    | 46 | 3-Acetyl-deoxynivalenol       | 86  | Cyclophenin                    |
| 7  | Patulin                      | 47 | Gibberellic acid              | 87  | Diacetoxyscirpenol             |
| 8  | Aspinonene                   | 48 | Thiolutin                     | 88  | Ergocristine                   |
| 9  | T2-Tetraol                   | 49 | Ergovaline                    | 89  | Pestalotin                     |
| 10 | Luol                         | 50 | Fusaric acid                  | 90  | Sulochrin                      |
| 11 | Ustiloxin A                  | 51 | Phomopsin B                   | 91  | hydrolyzed fumonisin B1        |
| 12 | Ustiloxin D                  | 52 | 3-Acetyl-deoxynivalenol       | 92  | Aflatoxin B1                   |
| 13 | Vancomycin                   | 53 | Neoxaline                     | 93  | Altenuene                      |
| 14 | Ergine                       | 54 | Pyrenophorol                  | 94  | Tenuazonic acid                |
| 15 | Elymoclavine fructoside      | 55 | HC-Toxin                      | 95  | Gliotoxin                      |
| 16 | Cephalosporin C              | 56 | Aflatoxin M2                  | 96  | Wortmannin                     |
| 17 | Asperlactone                 | 57 | Pentoxifylline                | 97  | T2-Triol                       |
| 18 | Decarestrictine              | 58 | Phomopsin A                   | 98  | Altenusin                      |
| 19 | Dihydrolysergol              | 59 | Paraherquamide A              | 99  | Dechlorogriseofulvin           |
| 20 | Ergometrine                  | 60 | Ergosine                      | 100 | Roquefortine C                 |
| 21 | Elymoclavine                 | 61 | Chloramphenicol               | 101 | Radicicol                      |
| 22 | Lysergol                     | 62 | Aflatoxin G2                  | 102 | Staurosporine                  |
| 23 | Lincomycin                   | 63 | Dihydroergosine               | 103 | Terphenyllin                   |
| 24 | Deoxynivalenol               | 64 | Monoacetoxyscirpenol          | 104 | Cyclopeptide                   |
| 25 | Deoxynivalenol-3-O-glucoside | 65 | Aflatoxin M1                  | 105 | alpha-Zearalenol-4-O-glucoside |
| 26 | Anisomycin                   | 66 | Fulvic acid                   | 106 | Zearalenone-4-glucoside        |
| 27 | Chanoclavine                 | 67 | Ergotamine                    | 107 | Ergocryptinine                 |
| 28 | Aspergillimide               | 68 | Meleagrin                     | 108 | Fumonisin B1                   |
| 29 | Aspyrone                     | 69 | Oxaspirodion                  | 109 | Trichostatin A                 |
| 30 | Ergometrinine                | 70 | Citromycetin                  | 110 | Cycloechinulin                 |
| 31 | Fumigaclavine A              | 71 | Dihydroergotamine             | 111 | Cerulenin                      |
| 32 | Tetracycline                 | 72 | Ergocornine                   | 112 | Curvularin                     |
| 33 | Austdiol                     | 73 | Ergocorninine                 | 113 | Cytochalasin J                 |
| 34 | Agroclavine                  | 74 | Altersolanol                  | 114 | Griseofulvin                   |
| 35 | Festuclavine                 | 75 | 16-Ketoaspergillimide         | 115 | HT-2                           |
| 36 | Fusarenon-X                  | 76 | Aflatoxin G1                  | 116 | Penicillin G                   |
| 37 | Mitomycin C                  | 77 | Cycloheximide                 | 117 | Satratoxin G                   |
| 38 | Neosolaniol                  | 78 | Bacitracin                    | 118 | Altertoxin-II                  |
| 39 | Penicillic acid              | 79 | Marcfortine A                 | 119 | Asterric acid                  |
| 40 | Deepoxy-deoxynivalenol       | 80 | beta-Zearalenol-4-O-glucoside | 120 | Ochratoxin alpha               |
|    |                              |    |                               | 121 | Asperloxine A                  |
|    |                              |    |                               | 122 | Brefeldin A                    |
|    |                              |    |                               | 123 | Ergocristinine                 |
|    |                              |    |                               | 124 | Cytochalasin D                 |
|    |                              |    |                               | 125 | Satratoxin H                   |
|    |                              |    |                               | 126 | Setosusin                      |
|    |                              |    |                               | 127 | Tryprostatin A                 |
|    |                              |    |                               | 128 | Altertoxin-I                   |
|    |                              |    |                               | 129 | Deoxybrevianamide E            |
|    |                              |    |                               | 130 | Tentoxin                       |
|    |                              |    |                               | 131 | Fumonisin B2                   |

