# Aventhramides in Urine by LC-MS/MS

ACE®
Ultra-inert
UHPLC & HPLC Columns

**Application #AN4670**

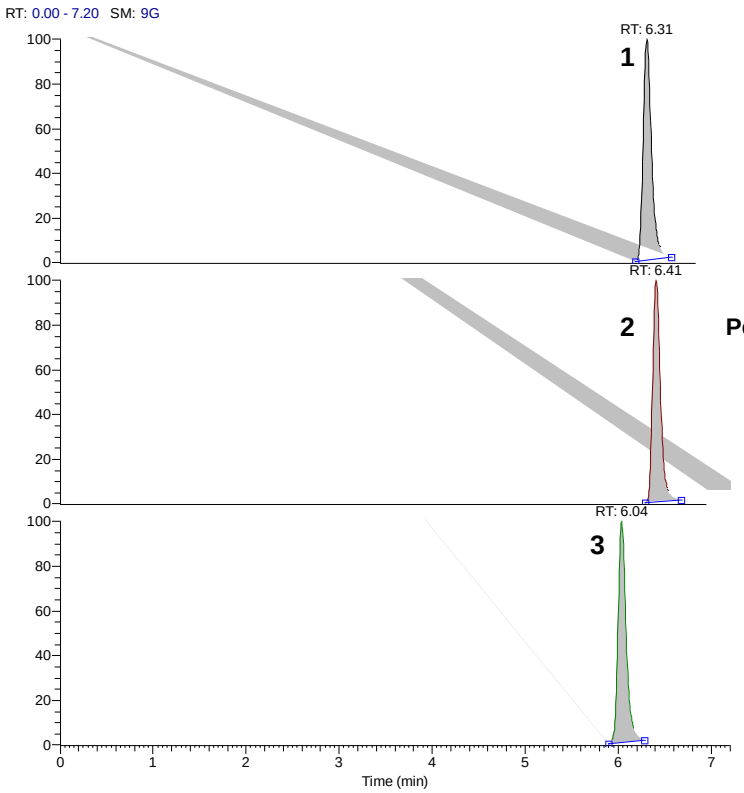
**Conditions**

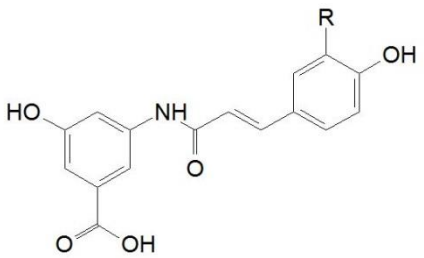
| | |
|---|---|
| Column: | ACE 3 C18-AR |
| Dimensions: | 150 x 2.1 mm |
| Part Number: | ACE-119-1502 |
| Mobile Phase: | A: 0.1% formic acid in $H_2O$ |
| | B: 0.1% formic acid in MeOH |

| Time (mins) | %B |
|---|---|
| 0.0 | 30 |
| 3.0 | 100 |
| 5.0 | 100 |
| 5.1 | 30 |
| 9.0 | 30 |

| | |
|---|---|
| Flow Rate: | 0.2 mL/min |
| Injection: | 5 µL |
| Temperature: | 50 °C |
| Detection: | Thermo TSQ Quantum MS |
| | MRM ESI in positive ion mode |
| Sample: | Human urine |

Aventhramides are a group of naturally occurring phenolic alkaloids found mainly in oats.




| Peak | Analyte | R | MRM Transition |
|---|---|---|---|
| 1 | Aventhramide A | H | 300.0 → 147.0-147.2 |
| 2 | Aventhramide B | $OCH_3$ | 330.0 → 177.0-177.2 |
| 3 | Aventhramide C | OH | 316.0 → 163.0-163.2 |

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