

# Rifamycin Anti-tubercular Antibiotics in Human Plasma

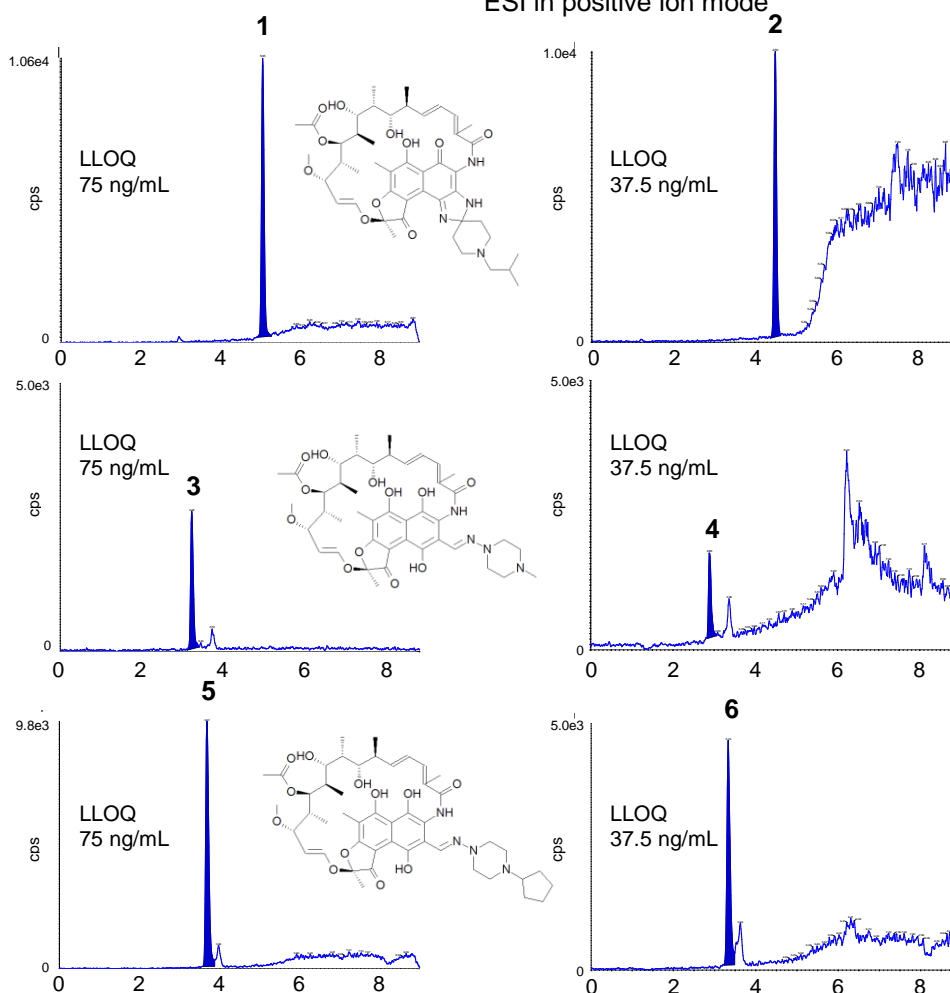
Application #AN4090

## Conditions

Column: ACE 3 C18  
Dimensions: 100 x 3.0 mm  
Part Number: ACE-111-1003  
Mobile Phase: A: 15 mM ammonium formate pH 5.0 with formic acid in H<sub>2</sub>O  
B: 0.1% formic acid in MeOH

Time (mins)	%B
0.0	60
4.0	95
7.0	95
7.2	60
9.0	60

Flow Rate: 0.35 mL/min  
Injection: 2 µL  
Temperature: 30 °C  
Detection: API 5000 triple quad MS  
ESI in positive ion mode



Assay for simultaneous quantification of rifamycin antibiotics and their corresponding active desacetyl metabolites

1. Rifabutin  
(*m/z* 847.5 → 815.5)
2. Desacetyl rifabutin  
(*m/z* 805.5 → 773.4)
3. Rifampicin  
(*m/z* 823.5 → 791.4)
4. Desacetyl rifampicin  
(*m/z* 781.5 → 749.4)
5. Rifapentine  
(*m/z* 877.5 → 845.4)
6. Desacetyl rifapentine  
(*m/z* 835.5 → 803.5)

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