Rifamycin Anti-tubercular Antibiotics in Human Plasma

ACE® Ultra-inert UHPLC & HPLC Columns

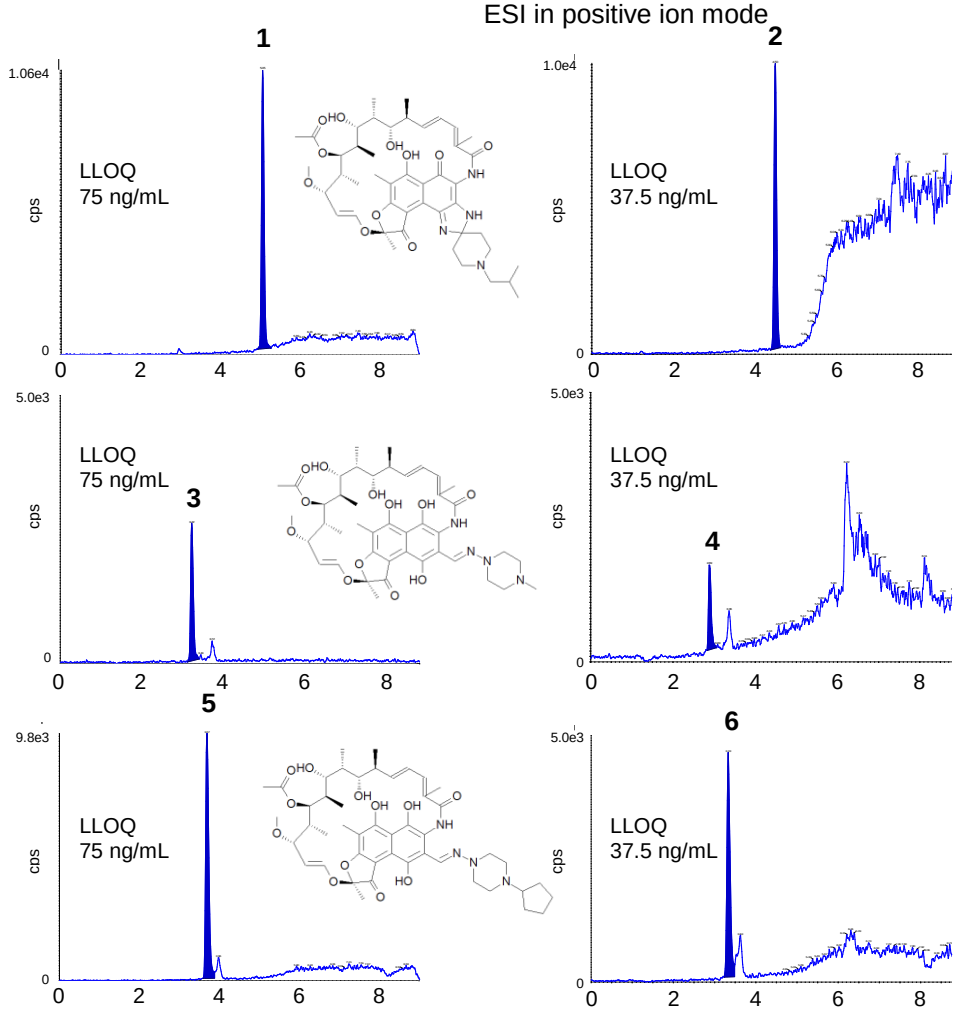
Application #**AN4090**

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_2O
	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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