

HPLC Application

ID No.: 27302

Ph. Eur. Azithromycin - Related Substances peak identification solution injection on Gemini™ 3 µm NX-C18 150 x

Column: Gemini® 3 µm NX-C18 110 Å, LC Column 150 x 4.6 mm, Ea
Dimensions: 150 x 4.6 mm ID
Order No: 00F-4453-E0
Elution Type: Gradient
Eluent A: 1.80 g/L solution of anhydrous disodium hydrogen phosphate adjusted to pH 8.9
Eluent B: Acetonitrile:Methanol = 75:25

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	50	50
	2	9	45	55
	3	10.8	40	60
	4	28.8	25	75
	5	29.16	50	50
	6	33.48	50	50

Flow Rate: 1.667 mL/min
Col. Temp.: 60 °C
Detection: LC/UV (DAD, PDA) @ 210.000000000 nm (nanometers) (ambient)
Analyst Note: Diluent buffer: 1.73 g/L solution of ammonium dihydrogen pH adjusted to 10.0 with ammonia
Diluent: Diluent buffer: Acetonitrile: methanol = 35:30:35 (v/v/v)



Products used in this application:



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ANALYTES:

- 1 Azithromycin Impurity L
- 2 Azithromycin Impurity C
- 3 Azithromycin Impurity M
- 4 Azithromycin Impurity E
- 5 Azithromycin Impurity F
- 6 Azithromycin Impurity J
- 7 Azithromycin Impurity I
- 8 Azithromycin Impurity N
- 9 Azithromycin Impurity A
- 10 Azithromycin Impurity P
- 11 Azithromycin
- 12 Azithromycin Impurity O
- 13 Azithromycin Impurity G
- 14 Azithromycin Impurity B

