

# HPLC Application

ID No.: 27275

## Ph. Eur. Azithromycin - Related Substances Peak Identification Solution on Durashell 5 µm C18(L) 250 x 4.6 mm

**Column:** N/A

**Dimensions:** N/A

**Order No:** N/A

**Elution Type:** N/A

**Eluent A:** 1.80 g/L solution of anhydrous disodium hydrogen phosphate adjusted to pH 8.9

**Eluent B:** Acetonitrile:Methanol = 75:25

<b>Gradient Profile:</b>	<b>Step No.</b>	<b>Time (min)</b>	<b>Pct A</b>	<b>Pct B</b>
	1	0	50	50
	2	25	45	55
	3	30	40	60
	4	80	25	75
	5	81	50	50
	6	93	50	50

**Flow Rate:** 1 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)



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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

