Azithromycin

Experimental

Column: SVEA C18 Opal, 5 µm 110 Å 4.6 x 250 mm

Instrument: HPLC

Mobile phase: **Mobil A:** 1.8g/L anhydrous disodium hydrogen phosphate adjusted till pH=8.9 by dilute phosphoric acid or dilute sodium hydroxide. **Mobil B:** methanol: acetonitrile (250:750 V/V). Gradient condition see following table.

Flow rate: 1.0 ml/min

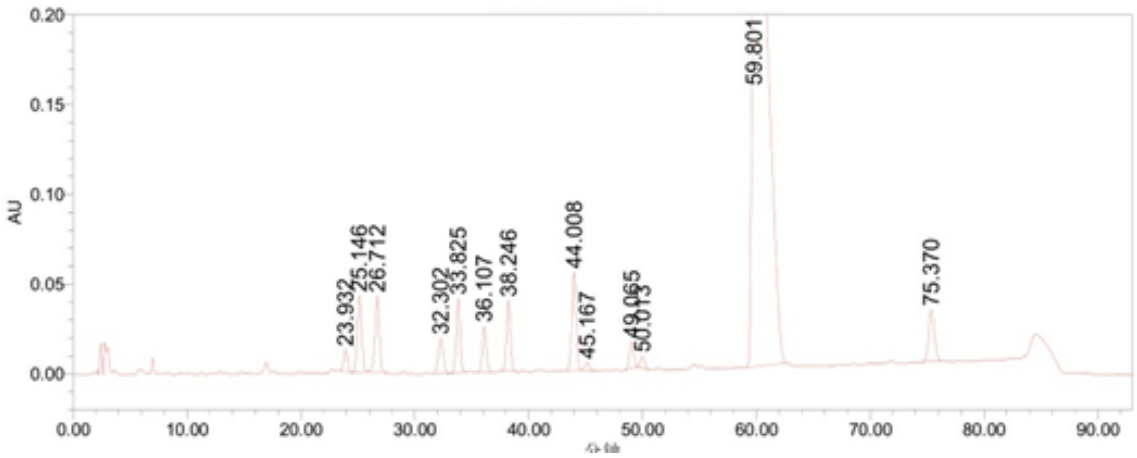
Injection volume: 50µl

Sample concentration: 8 mg/ml

Column temperature: 60°C

Detector: UV 210 nm

Sample: Azithromycin including impurities



Peak order from left to right：M, Q, R, F, J, I, S, H, unknown, A, unknown, azithromycin, B

Gradient condition:

Time (mins)	Mobil phase A	Mobil phase B
0-25	50-45	50-55
25-30	45-40	55-60
30-80	40-25	60-75
80-81	25-50	75-50
81-93	50	50

Method: EU Pharmacopoeia 9.0, Azithromycin monograph. Data kindly provided by Yunbo Technologies.