

**CoreFocus**  
**Report**  
**No.68**

LC

Reversed-phase

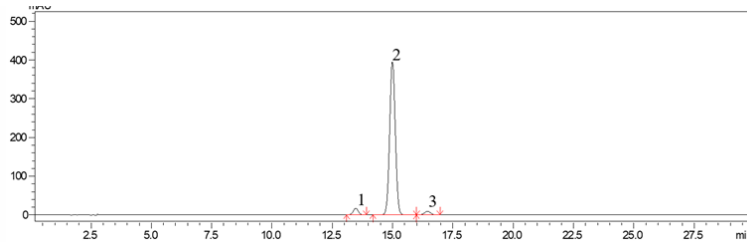
Shim-pack Series

**Shim-pack™ GIST C18**

**Analysis of Levofloxacin**

**Keywords: LVFX, CPMX, Antibiotic, Fluoroquinolone**

Chromatogram of Standard Mix

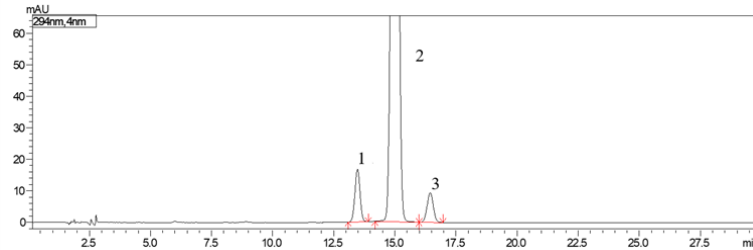


1. Impurity E
2. Levofloxacin
3. Ciprofloxacin

Standard Mix

Levofloxacin (0.1 g/mL in 0.1 mol/L HCl)  
Ciprofloxacin (5 µg/mL in 0.1 mol/L HCl)  
Impurity E (5 µg/mL in 0.1 mol/L HCl)

Enlarged chromatogram of Standard Mix



Column	: Shim-pack GIST C18 (150 mm x 4.6 mm I.D., 3 µm) P/N: 227-30011-07
Mobile phase	: A) 4.0 g ammonium acetate + 7.0 g Sodium Perchlorate acid + 1300 mL Water containing Phosphoric acid (pH 2.2) B) Acetonitrile A : B = 85 : 15
Flow rate	: 0.8 mL/min
Column temp.	: 40°C
Injection vol.	: 10 µL
Vial	: LabTotal™ Vial for LC/LCMS, P/N : 227-34001-01
Detection	: UV at 294 nm

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