

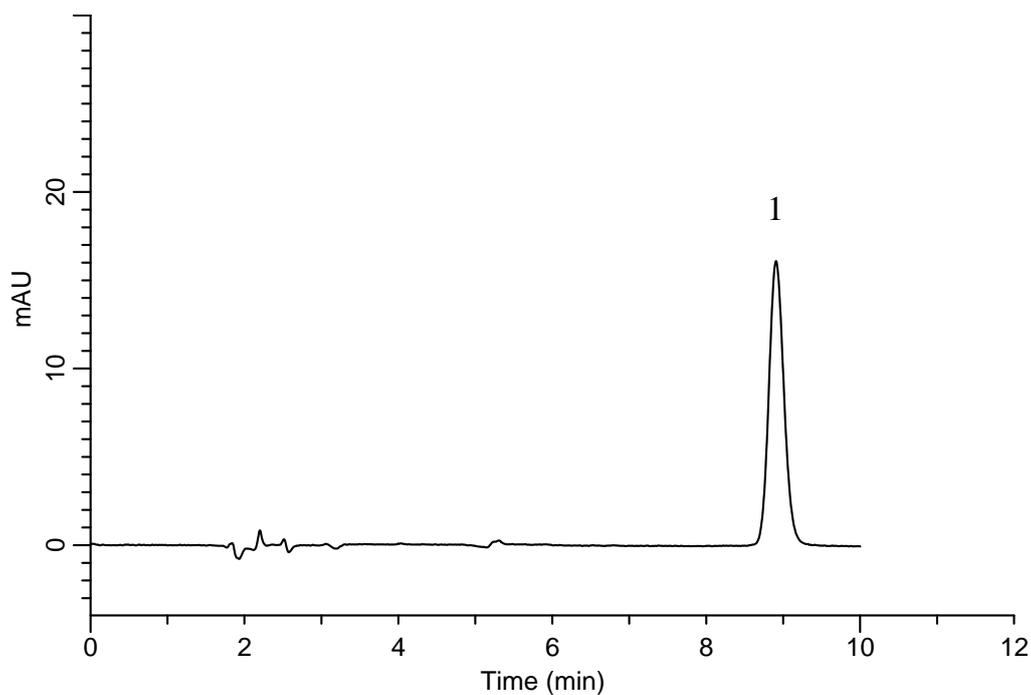
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Inertsil® Applications

Analysis of Pioglitazone hydrochloride

(Under the Condition of the Japanese Pharmacopoeia,
Pioglitazone hydrochloride and Metformin hydrochloride Tablets)

Data No. LB188-0894



Conditions

System	: GL-7400 HPLC system
Column	: Inertsil C8-3 (5 μ m, 150 x 6.0 mm I.D.)
Column Cat. No.	: 5020-04955
Eluent	: 7.2 g/L Sodium lauryl sulfate in (5.75 g/L $\text{NH}_4\text{H}_2\text{PO}_4$ in $\text{H}_2\text{O}/\text{CH}_3\text{CN} = 1/1$, v/v)
Flow Rate	: 1.15 mL/min
Col. Temp.	: 25 °C
Detection	: UV 225 nm (GL-7452 PDA Detector)
Injection Vol.	: 5 μ L
Sample	: Standard

Analyte:

1. Pioglitazone 18.5 mg/L

Theoretical plates	: 10,171 ($\geq 8,000$)
Tailing factor	: 1.12 (≤ 2.0)
RSD of the peak area (%) (n=6)	: 0.13 (≤ 1.0)