

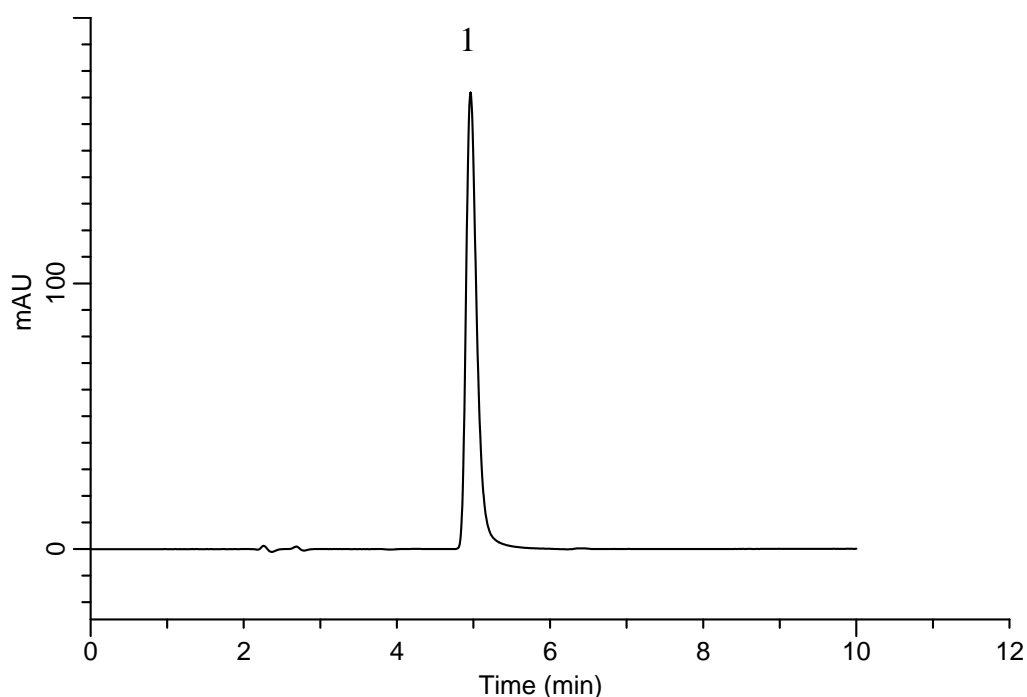
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Inertsil® Applications

Analysis of Metformin hydrochloride

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

Data No. LB191-0894



Conditions

System : GL-7400 HPLC system

Column : InertSustain C8
(5 μ m, 150 x 6.0 mm I.D.)

Column Cat. No. : 5020-16057

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 : 0.9 mL/min

Col. Temp. : 25 $^\circ\text{C}$

Detection : UV 255 nm (GL-7452 PDA Detector)

Injection Vol. : 5 μ L

Sample : Standard

Analyte:

1. Metformin

560 mg/L

Theoretical plates : 6,368 ($\geq 6,000$)

Tailing factor : 1.46 (≤ 2.5)

RSD of the
peak area (%) (n=6) : 0.29 (≤ 1.0)