

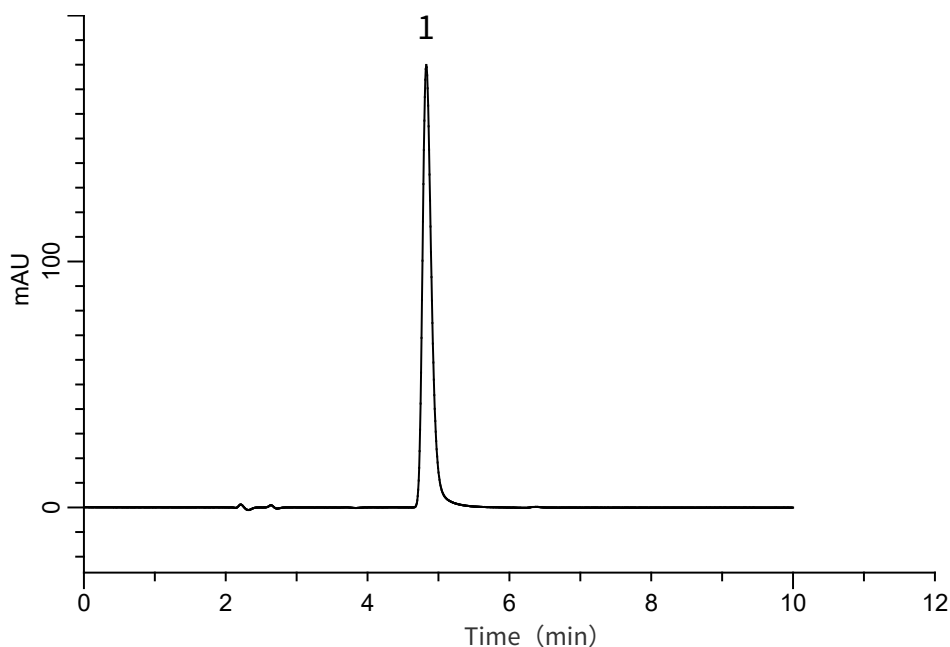
InertSearch™ for LC

Inertsil® Applications

Analysis of Metformin hydrochloride

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

Data No. LB190-0894



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 : 0.95 mL/min
Col. Temp. : 25 °C
Detection : UV 255 nm (GL-7452 PDA Detector)
Injection Vol. : 5 μ L
Sample : Standard

Analyte:

1. Metformin 560 mg/L
Theoretical plates : 7,236 ($\geq 6,000$)
Tailing factor : 1.41 (≤ 2.5)
RSD of the
peak area (%) (n=6) : 0.81 (≤ 1.0)