

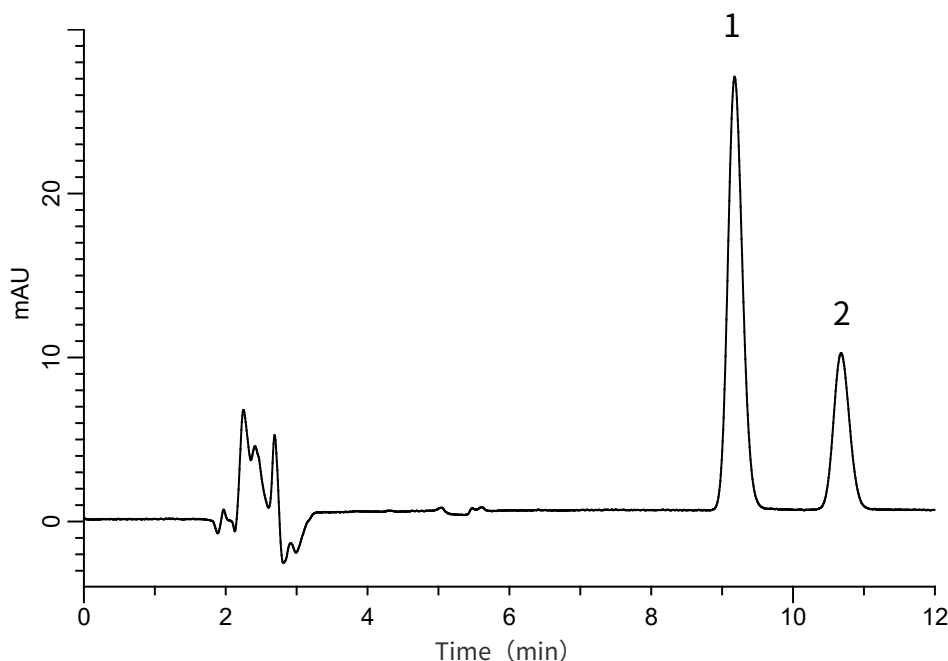
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Inertsil® Applications

Analysis of Pioglitazone hydrochloride

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

Data No. LB193-0894



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 : 1.05 mL/min
Col. Temp. : 25 $^\circ\text{C}$
Detection : UV 225 nm (GL-7452 PDA Detector)
Injection Vol. : 10 μL
Sample : Standard

Analyte:

1. Pioglitazone 16.5 mg/L
2. *p*-Hydroxybenzoic acid *n*-butyl ester 20 mg/L
Resolution (1, 2) : 3.71 (≥ 2.5)
RSD of the peak
area ratio of 1 to 2 (%) (n=6) : 0.34 (≤ 1.0)