

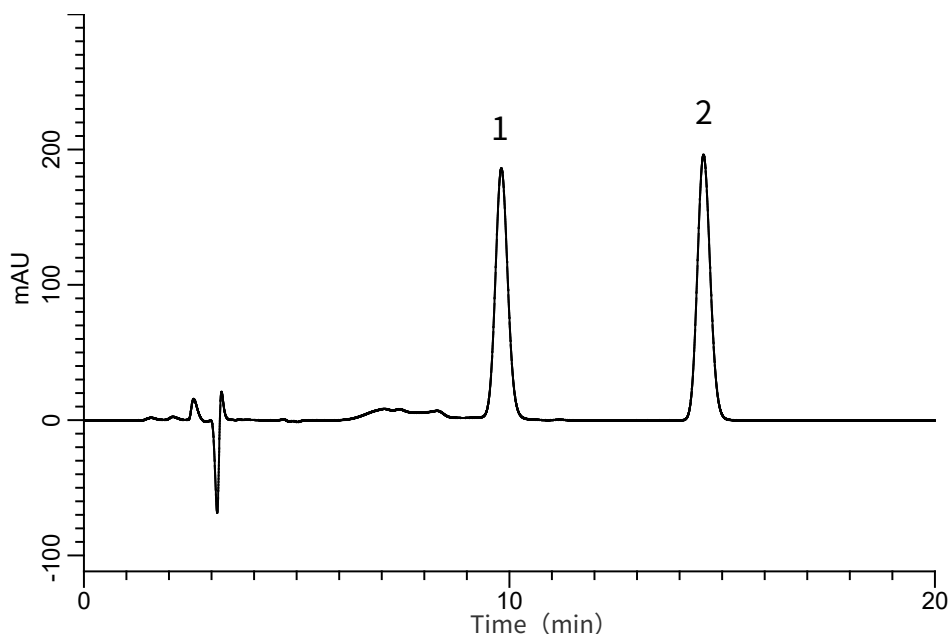
InertSearch™ for LC

Inertsil® Applications

Analysis of Tacrolimus

(Under the Condition of the Japanese Pharmacopoeia, Tacrolimus Capsules)

Data No. LB265-0894



Conditions

System : GL7700 HPLC system
Column : Inertsil ODS-2
(5 μ m, 150 x 4.6 mm I.D.)
Column Cat. No. : 5020-01124
Eluent : A) THF
B) 2-Propanol
C) H₂O
A/B = 2/2/5, v/v/v
Flow Rate : 0.55 mL/min
Col. Temp. : 50 °C
Detection : UV 220 nm (UV7750 UV Detector)
Injection Vol. : 10 μ L
Sample : Standard

Analyte:

1. Tacrolimus	500 mg/L
2. <i>p</i> -Hydroxybenzoic acid heptyl ester	150 mg/L
Resolution (1, 2)	: 8.61 (≥ 6)
Theoretical plates (1)	: 5,288 ($\geq 3,000$)
Tailing factor (1)	: 1.08 (≤ 1.5)
RSD of the peak area ratio of 1 to 2 (%) (n=5)	: 0.16 (≤ 1.0)