

InertSearch™ for LC

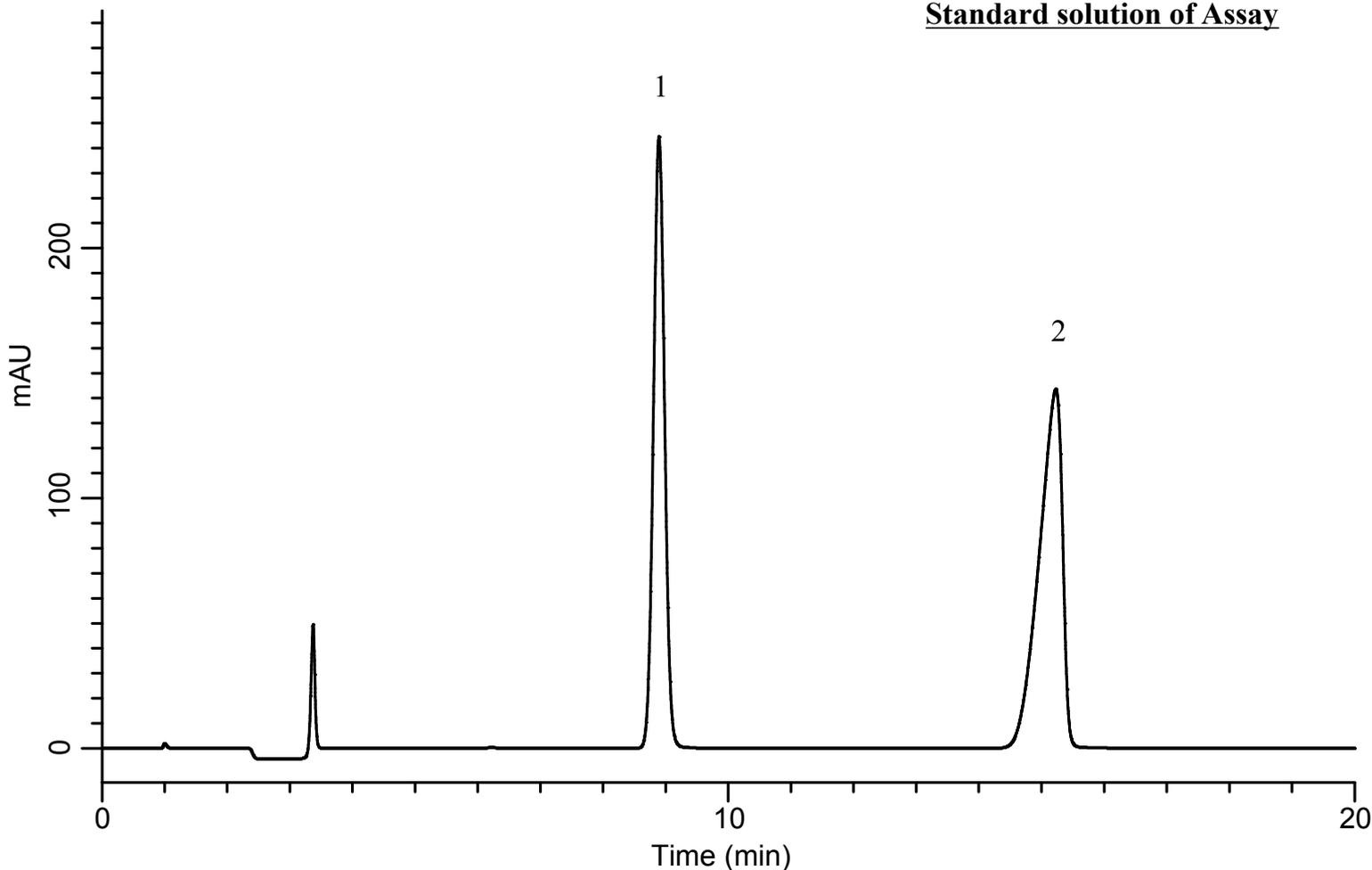
Inertsil® Applications

Analysis of Carnosine

(Under the Condition of the draft for the Japanese Pharmacopoeia, Poraprezinc Granules)

Data No. LB529-0812

Standard solution of Assay



Conditions

System : GL7700 HPLC system
Column : InertSustain C18 (5 μ m, 150 x 4.6 mm I.D.)
Column Cat. No. : 5020-07345
Eluent : A) CH₃CN
B) 2.22 g/L IPCC-08 in Buffer*
(IPCC-08: Sodium 1-Octanesulfonate)
A/B = 90/10, v/v
Flow rate : 1.1 mL/min
Col. Temp. : 45 °C
Detection : UV 210 nm (UV7750 UV Detector)
Injection Vol. : 5 μ L
Sample : Standard

Analyte:

1. 4-Aminoacetophenone 250 mg/L
2. Carnosine 400 mg/L

Resolution (1, 2) : 12.4 (≥ 6)
RSD of the relative peak area of
2 to 1 (%) (n=6) : 0.37 (≤ 1.0)

* Dissolve 1.4 g of KH₂PO₄ in 1000 mL of water, and adjust to pH 3.5 with 1% H₃PO₄.