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Inertsil® Applications

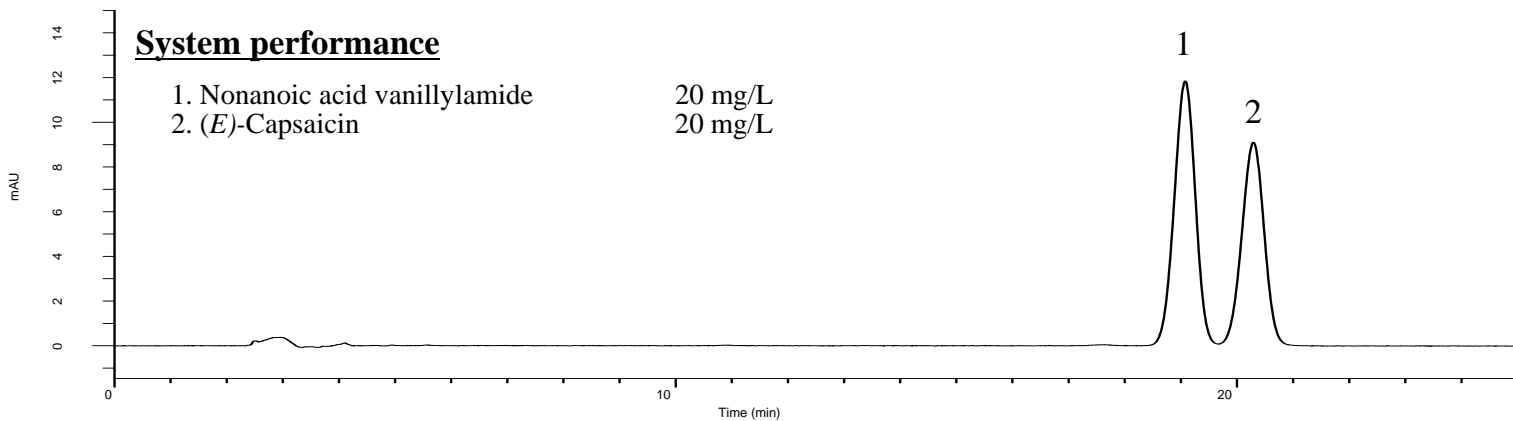
Analysis of Capsaicin

(Under the Condition of the Japanese Pharmacopoeia, Capsicum Tincture)

Data No. LB369-0919

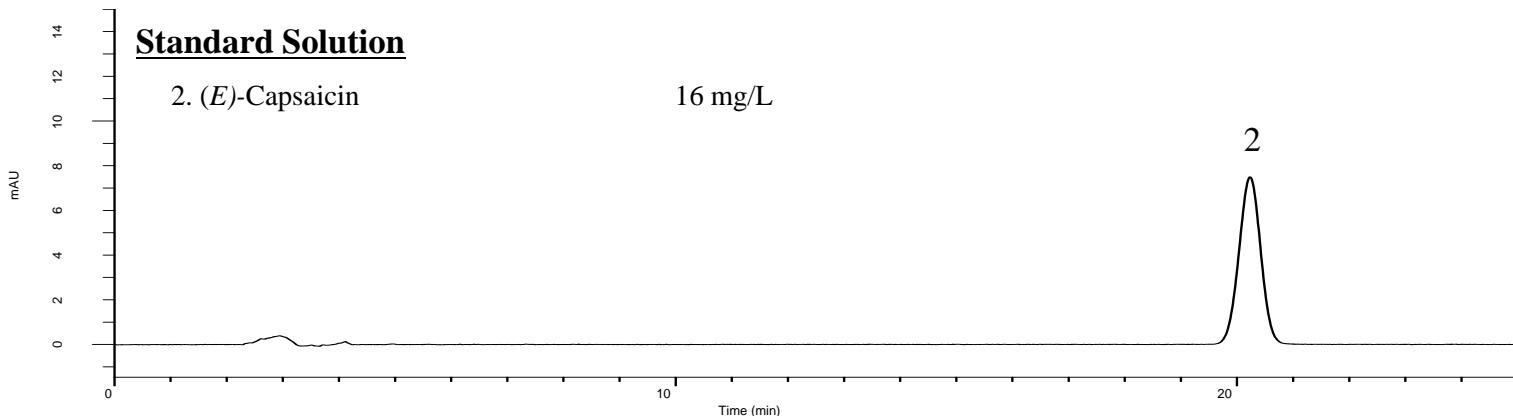
System performance

1. Nonanoic acid vanillylamide 20 mg/L
2. (*E*)-Capsaicin 20 mg/L



Standard Solution

2. (*E*)-Capsaicin 16 mg/L



Conditions

System : GL7700 HPLC system
Column : InertSustain Phenyl
(5 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-16328
Eluent : A) CH₃CN
B) 0.1% H₃PO₄ in H₂O
A/B = 40/60, v/v
Flow Rate : 0.95 mL/min
Col. Temp. : 30 °C
Detection : UV 281 nm (PD7752 PDA Detector)
Injection Vol. : 20 μ L
Sample : Standard

Analyte:

1. Nonanoic acid vanillylamide
2. (*E*)-Capsaicin

Resolution (1, 2) : 1.72 (\geq 1.5)
RSD of the
peak area (%) (n=6) : 0.19 (\leq 1.5)