

生薬の分析 (9) – 甘草 –

SunBridge C18 5 μ m, 150 x 4.6 mm i.d.

Crude Drugs and Related Drugs (9) - Glycyrrhiza -

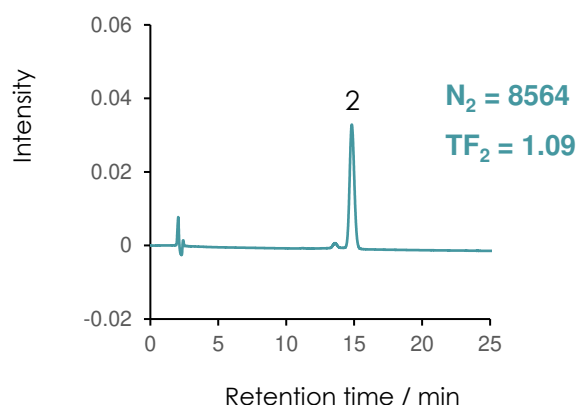
○標準溶液：グリチルリチン酸 0.1 mg/mL*

Standard solution: Glycyrrhizic acid (in 50% MeOH*)

N: 理論段数

TF: テーリング係数、シンメトリー係数

Rs: 分離度

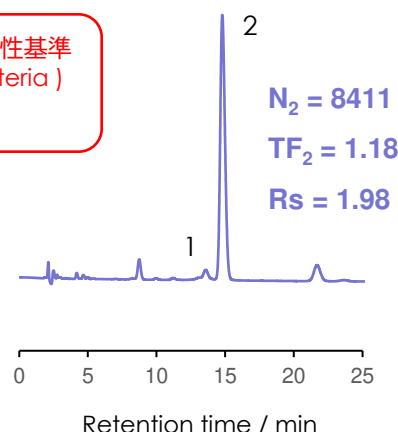


システムの性能

グリチルリチン酸モノアンモニウム
0.25 mg/mL (in 50% EtOH)

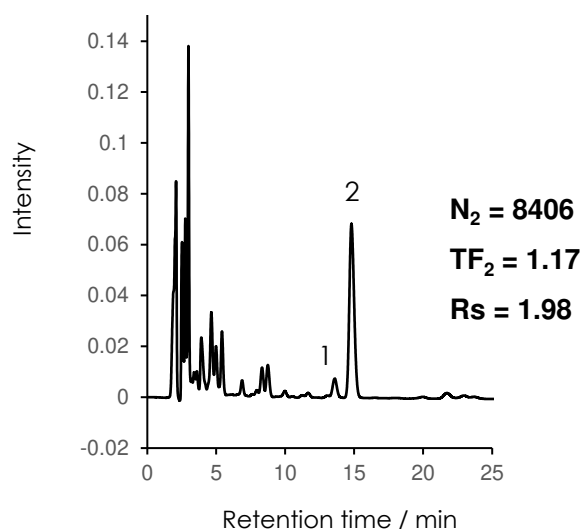
【JP18】システムの適合性基準
(system suitability criteria)

$Rs \geq 1.5$



●試料溶液：日局カンゾウ 0.5 g/100 mL

Sample solution: Glycyrrhiza (JP) (in 50% EtOH)

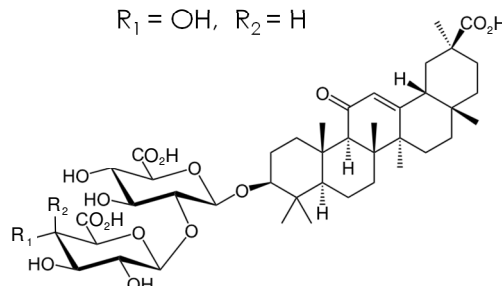


1. Galacturoglycyrrhizic acid:

$R_1 = H, R_2 = OH$

2. Glycyrrhizic acid:

$R_1 = OH, R_2 = H$



Column: SunBridge C18 5 μ m, 150 x 4.6 mm
Mobile phase: 69.4 mM** Ammonium acetate / Acetic acid
/ Acetonitrile= 72 / 0.5 / 28
Flow rate: 0.850 mL/min (グリチルリチン酸の保持時間: 約15分)
Injection volume: 10 μ L, Temperature: 40 $^{\circ}$ C

**Dissolve 3.85 g of ammonium acetate in 720 mL of water.

JP18: 第18改正日本薬局方 (Japanese Pharmacopoeia 18th edition)

*試料有機溶媒および試料濃度は、日局と異なる。

Detection: UV@254 nm (PDA)
Instrument: Waters Acquity UPLC H-Class
Sample: 1 = Galacturoglycyrrhizic acid,
2 = Glycyrrhizic acid

提供: イスクラ産業株式会社