

Younglin Application Note

REF No. : YL-APP-986013

Subject : Gallic Acid and Corilagin Analysis on Herb Medicine

Key Words

: Gallic acid, Corilagin



Introduction

There are many unidentified compounds in a herb medicine to be detected by HPLC, so it is difficult to separate and needs time to setup the separation method. Corilagin, one of compounds to be analyzed is known to be very complicated chemical mixtures.

Instrument

- Younglin 9600 HPLC
- Younglin Autochro-WIN

Analytical Conditions

- Column : Waters Nova-pak C18 3.9; 300mm
- Mobile Phase : 1% CH₃COOH in H₂O (Solvent A)
1% CH₃COOH in Acetonitrile (Solvent B)
- Flow rate : 1 ml/min
- Detector : UV 274nm

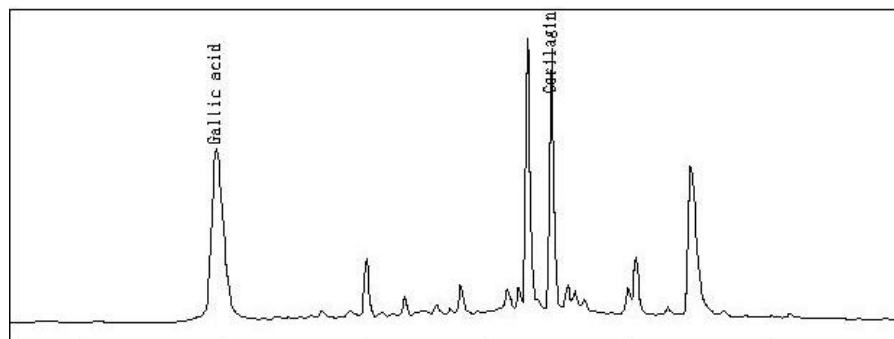
Gradient Condition

Time(min)	Solvent A	Solvent B
0	100	0
6	80	20
15	60	40
17	0	100
20	0	100
22	100	0
40	100	0

Sample

Compound	Gallic acid	Corilagin
RT(min)	7.90	12.83

Chromatogram



Discussion

Gallic acid and Corilagin are used as a hemostatic agent, a burn-medical treatment agent and a toxicide for heavy metals