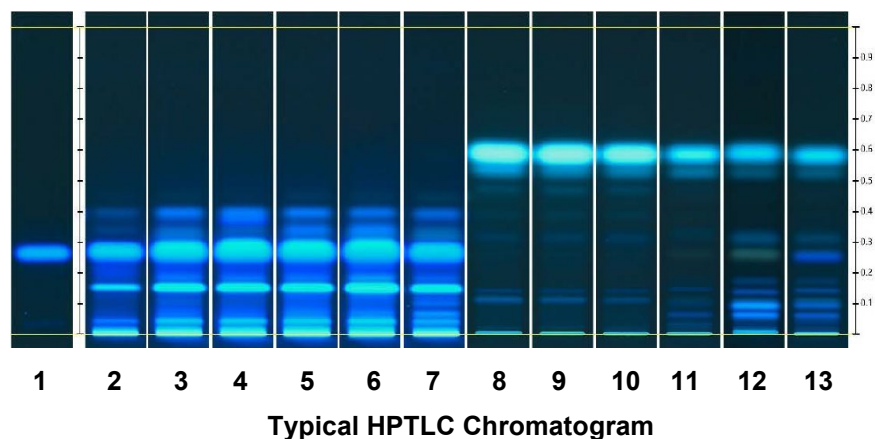


Angelica gigas Root – Identification

High-Performance Thin-Layer Chromatography

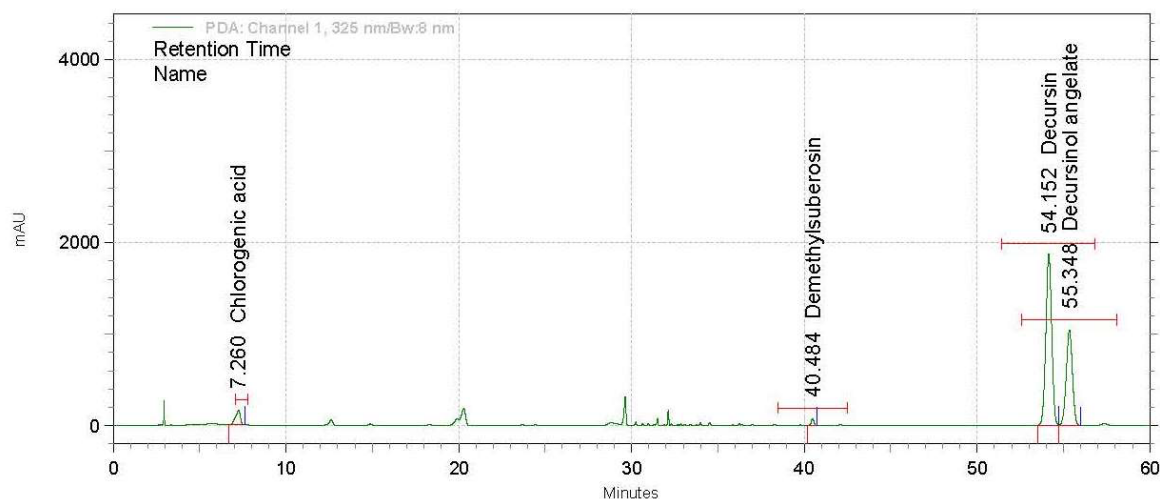


These chromatograms are supplied for information only

Track assignment: 1) Decursin; 2-7) *Angelica gigas* Root; 8-10) *Angelica sinensis* Root; 11) *Angelica acutiloba* Root; 12) *Angelica acutiloba* var. *Sugiyamae* Root; 13) *Angelica acutiloba* Root.

Sample solutions:	according to the monograph
Standard solutions:	in methanol
Plate:	HPTLC, Silica gel 60 F ₂₅₄ , 5 µm
Application volume:	4 µL for standard solution and sample solution, as 8-mm bands
Relative Humidity:	about 33%
Developing solvent system:	toluene, ethyl acetate, and acetic acid (90:10:1)
Developing distance:	7 cm
Detection:	examine under UV 365 nm

HPLC



Representative chromatogram of Content of Coumarins in *Angelica gigas* Root

This chromatogram is supplied for information only

Solution preparation:	according to the monograph
Detector:	UV, 325 nm
Column:	4.6-mm × 25-cm; 5 µm packing L1
Flow rate:	1.0 mL/min
Injection volume:	10 µL
Solution A:	0.1% formic acid in water
Solution B:	0.1% formic acid in acetonitrile
Mobile phase:	see <i>Table 1</i>

Table 1

Time (min)	Solution A (%)	Solution B (%)
0	88	12
10	82	18
25	80	20
30	50	50
60	50	50