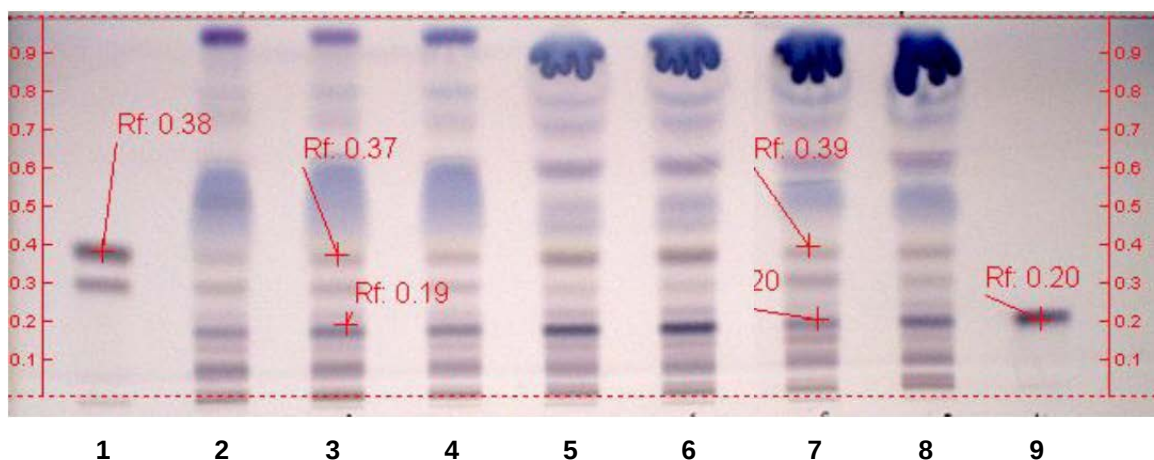


***Azadirachta indica* Seed – Identification**

High-Performance Thin-Layer Chromatography



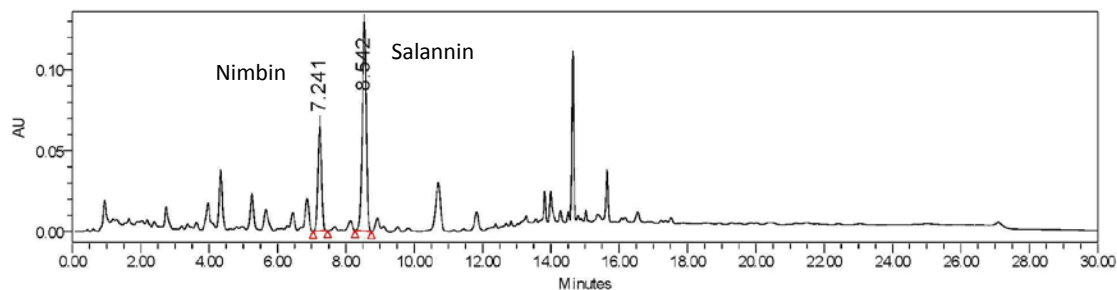
Typical HPTLC Chromatogram

These chromatograms are supplied for information only

Track assignment: 1), Nimbin; 2-4), *Azadirachta indica* Seed, 5-8) *Azadirachta indica* Seed Oil, 9) Salannin

Sample solutions:	according to the monograph
Standard solutions:	in methanol, except <i>Azadirachta indica</i> Seed Oil in ethyl acetate
Plate:	HPTLC, Silica gel 60 F ₂₅₄ , 5 µm
Application volume:	5 µL for standard solution, 5 µL for plant sample solution as 6-mm bands
Relative Humidity:	about 33%
Developing solvent system:	hexane, ethyl acetate (50:50)
Developing distance:	6 cm
Detection:	vanillin-sulfuric acid reagent, heat at 105° for 10 min, examine under white light

HPLC



Representative chromatogram of Content of Limonoids in *Azadirachta indica* Seed

This chromatogram is supplied for information only

Solution preparation:	according to the monograph
Mode:	HPLC
Detector:	UV, 210 nm
Column:	4.6-mm × 10-cm; 2.7 µm packing L1
Column temperature:	50°
Flow rate:	1.0 mL/min
Injection volume:	10 µL
Solution A:	0.1% o-phosphoric acid in water
Solution B:	acetonitrile
Mobile phase:	see <i>Table 1</i>

Table 1

Time (min)	Solution A (%)	Solution B (%)
0	55	45
10	45	55
12	10	90
25	10	90
26	55	45
30	55	45