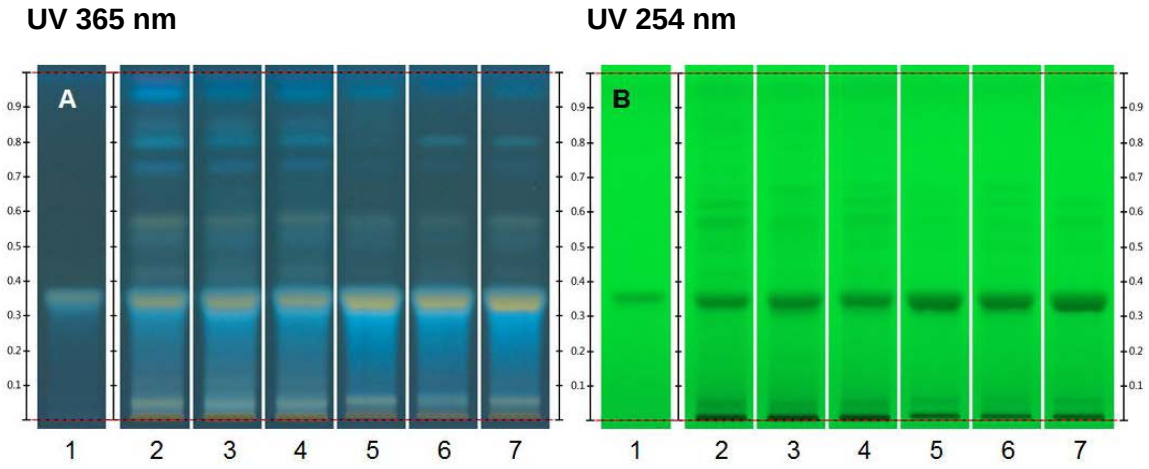
Mangifera indica Bark – Identification

Thin-Layer Chromatography



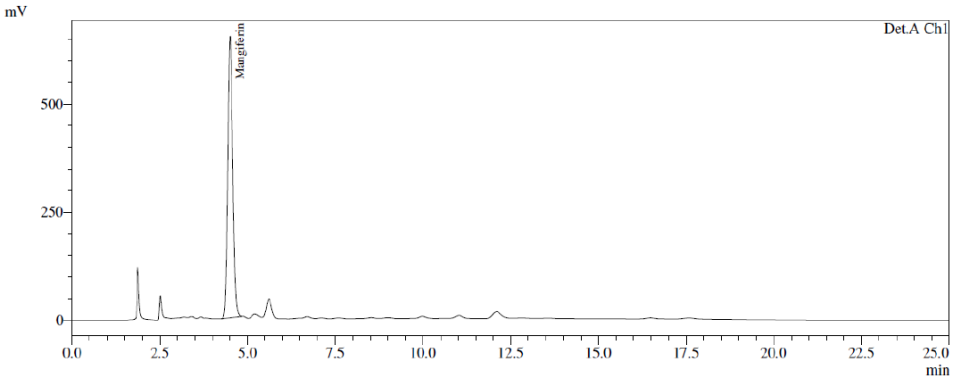
Typical HPTLC Chromatogram

These chromatograms are supplied for information only

Track assignment: 1) Mangiferin (0.15 mg/mL); 2-4) *Mangifera indica* dry extract; 5-7) *Mangifera indica* raw material.

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, 2 µL for sample solution, as 8-mm bands
Relative Humidity:	about 33%
Developing solvent system:	ethyl acetate, formic acid and water (80:10:10)
Developing distance:	7 cm
Detection:	examine under UV 365 nm and 254 nm.

HPLC (Mangiferin)



Representative chromatogram of Content of Mangiferin in *Mangifera indica* Bark

This chromatogram is supplied for information only

Solution preparation:	according to the monograph
Mode:	HPLC
Detector:	UV, 254 nm
Column:	4.6-mm × 25-cm; 5 µm packing L1 (similar to Merch KGaA Purospher Star LP HPLC Column, RP-18)
Flow rate:	1.5 mL/min
Injection volume:	20 µL
Solution A:	dissolve 0.136 g of potassium phosphate monobasic in 900 mL of water, add 0.5 mL of *o*-phosphoric acid, dilute with water to 1 L
Solution B:	acetonitrile
Mobile phase:	see *Table 1*

Table 1

Time (min)	Solution A (%)	Solution B (%)
0.01	85	15
10	80	20
15	80	20
20	85	15
25	85	15