**Mangifera indica** Bark – Identification

**Thin-Layer Chromatography**

**UV 365 nm**

**UV 254 nm**

**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 Merck 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>
<thead>
<tr>
<th>Time (min)</th>
<th>Solution A (%)</th>
<th>Solution B (%)</th>
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<tbody>
<tr>
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