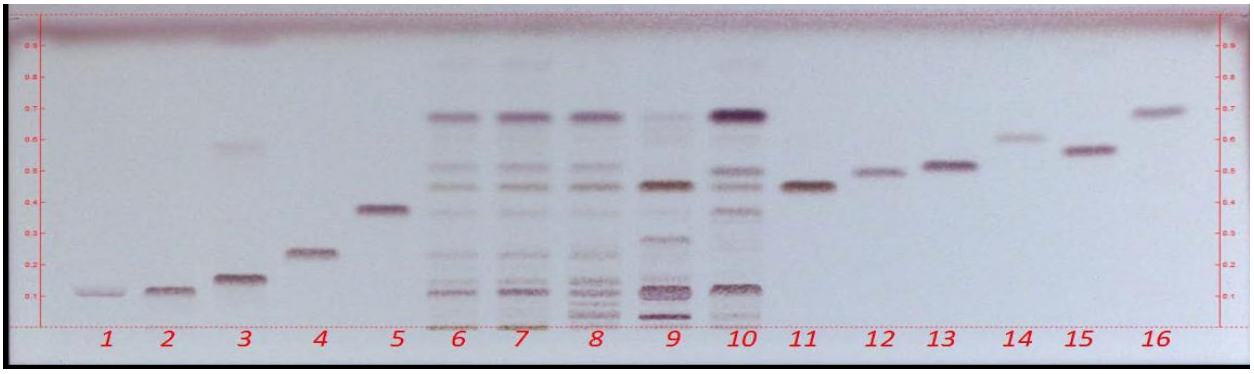
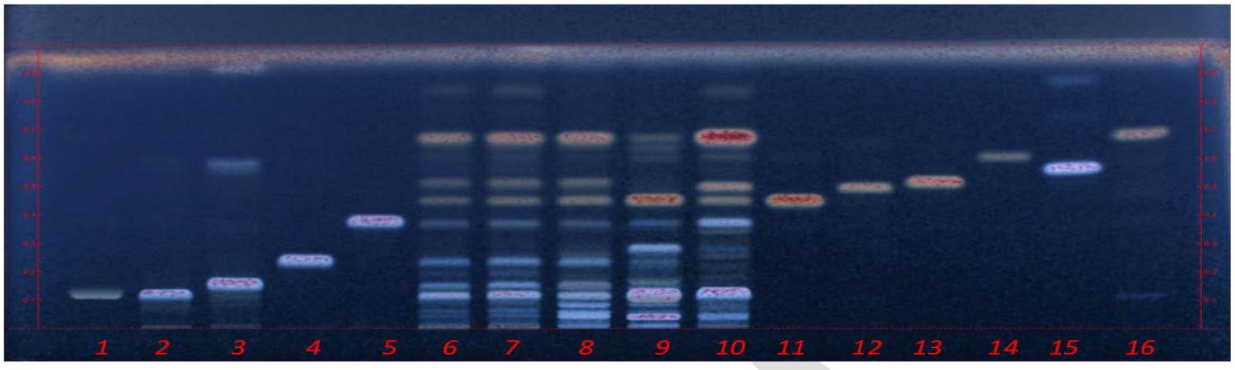
Panax ginseng Steamed Root and Rhizome — Identification

Thin-Layer Chromatography (Identification)

After treated by Derivatization reagent, under white light



After treated by Derivatization reagent under UV light at 366 nm



Typical HPTLC Chromatograms

These chromatograms are supplied for information only

Track assignment: Track assignment: 1) ginsenoside Ro; 2) ginsenoside b1; 3) ginsenoside Rb2; 4) ginsenoside Rc; 5) ginsenoside Rd; 6) *Panax ginseng* Steamed Root and Rhizome Dry Extract; 7) *Panax ginseng* Steamed Root and Rhizome; 8) *Panax ginseng* Root and Rhizome (Asian Ginseng); 9) *Panax quinquefolius* Root and Rhizome (American Ginseng); 10) *Panax notoginseng* Root and Rhizome (Notoginseng); 11) ginsenoside Re; 12) notoginsenoside R1; 13) ginsenoside Rf; 14) ginsenoside Rg2; 15) ginsenoside Rg3; 16) ginsenoside Rg1;

Sample solutions: according to the monograph

Standard solutions: in methanol

Plate: HPTLC, Si 60

Application volume: 3 µL, as 8-mm bands

Relative Humidity: about 33%

Temperature: About 25°

Developing solvent system: methylene chloride, anhydrous ethanol, and water (60:45:6.5)

Developing distance: 6 cm

Derivatization reagent: a solution of 10% sulfuric acid in alcohol

Detection: derivatize, heat at 105º for 5 min

HPLC (Ginsenosides)

Solutions preparation: according to the monograph

Detector: UV, 203 nm

Column: 4.6-mm × 15-cm; 2.7-µm packing L1 (similar to Agilent™ C18, 120Å)

Column temperature: 40°

Flow rate: 1.2 mL/min

Injection volume: 20 µL

Solution A: 0.01% phosphoric acid in water

Solution B: acetonitrile

Mobile phase: see *Table 1*

Table 1

Time (min)	Solution A (%)	Solution B (%)
0	82	18
25	79	21
35	72	28
75	68	32

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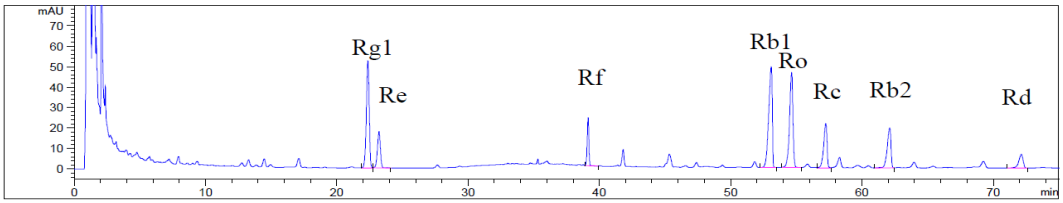
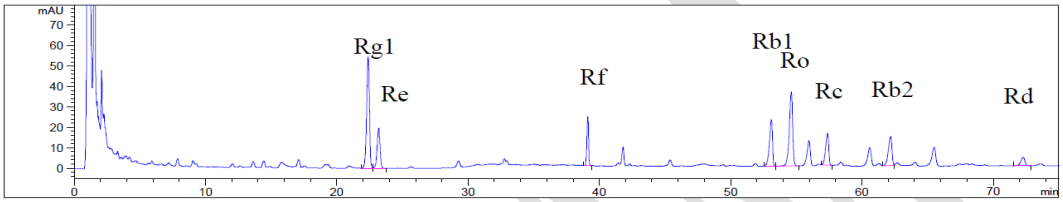
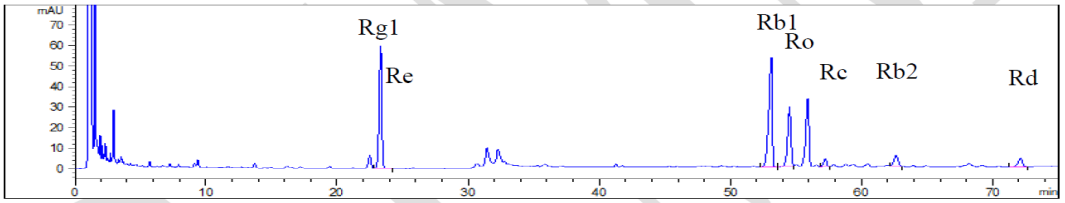


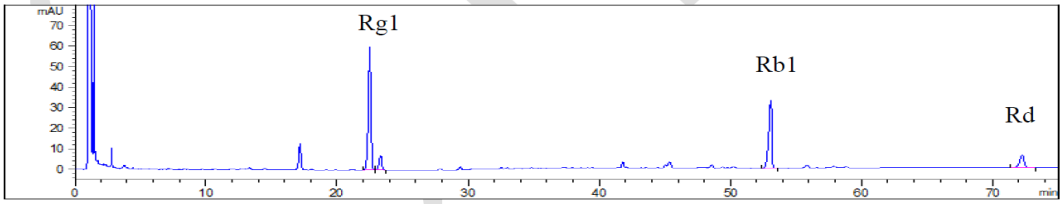
Asian Ginseng



American Ginseng



Panax notoginseng Root and Rhizome



Representative chromatogram of *Content of Ginsenosides* in *Panax ginseng* Steamed Root and Rhizome

This chromatogram is supplied for information only