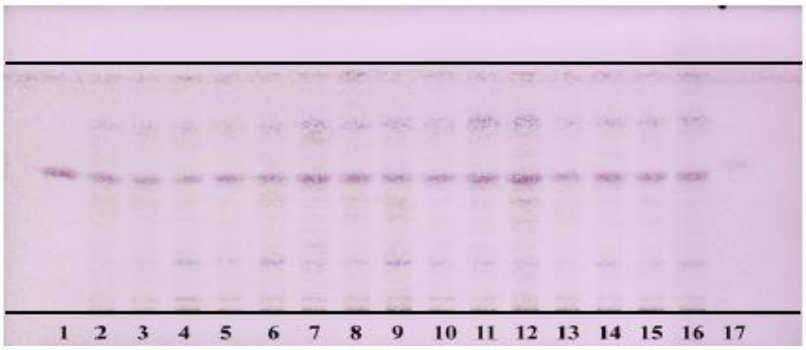
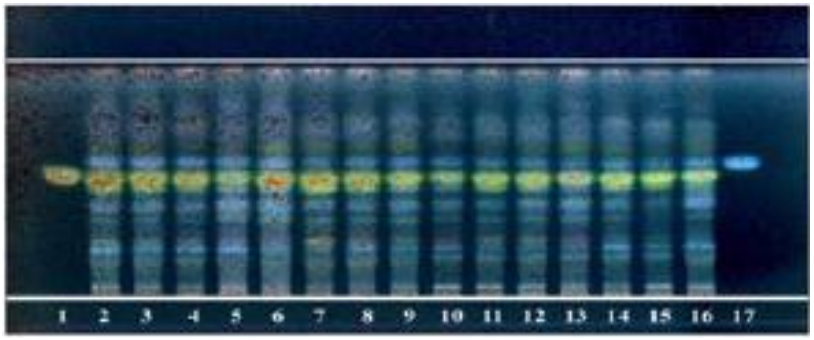
Ziziphus jujuba Fruit — Identification

Thin-Layer Chromatography (Identification)

After treated by Derivatization reagent, under vsible light



After treated by Derivatization reagent, Under UV light at 366 nm



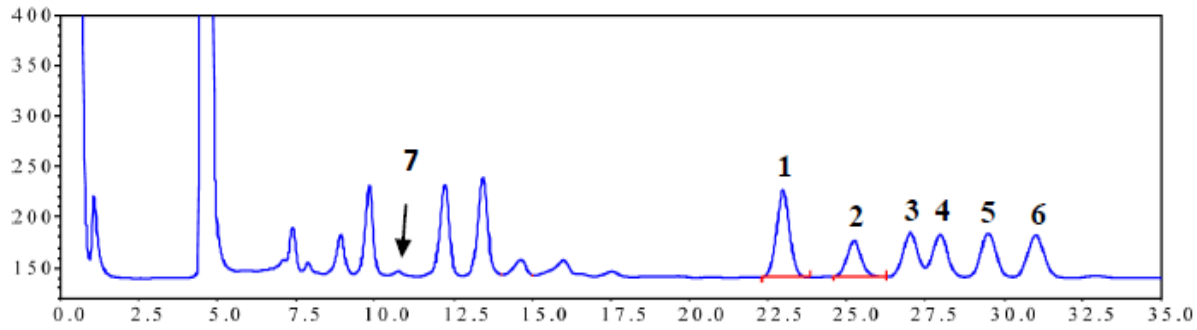
Typical HPTLC Chromatograms

These chromatograms are supplied for information only

Track assignment: **1)** Oleanolic acid; **2~16**) *Ziziphus zuzuba* Fruit; **17**) Betulinic acid

Sample solutions:	according to the monograph
Standard solutions:	in alcohol
Plate:	HPTLC, Silica G
Saturation Time:	saturated chamber
Application volume:	6 µL, as 8-mm bands
Relative Humidity:	45%
Developing solvent system:	methylbenzene, ethyl acetate, and glacial acetic acid (14:4:0.5)
Developing distance:	6 cm
Derivatization reagent:	a solution of 10% sulphuric acid in ethanol

HPLC (Triterpenic Acids, Identification)



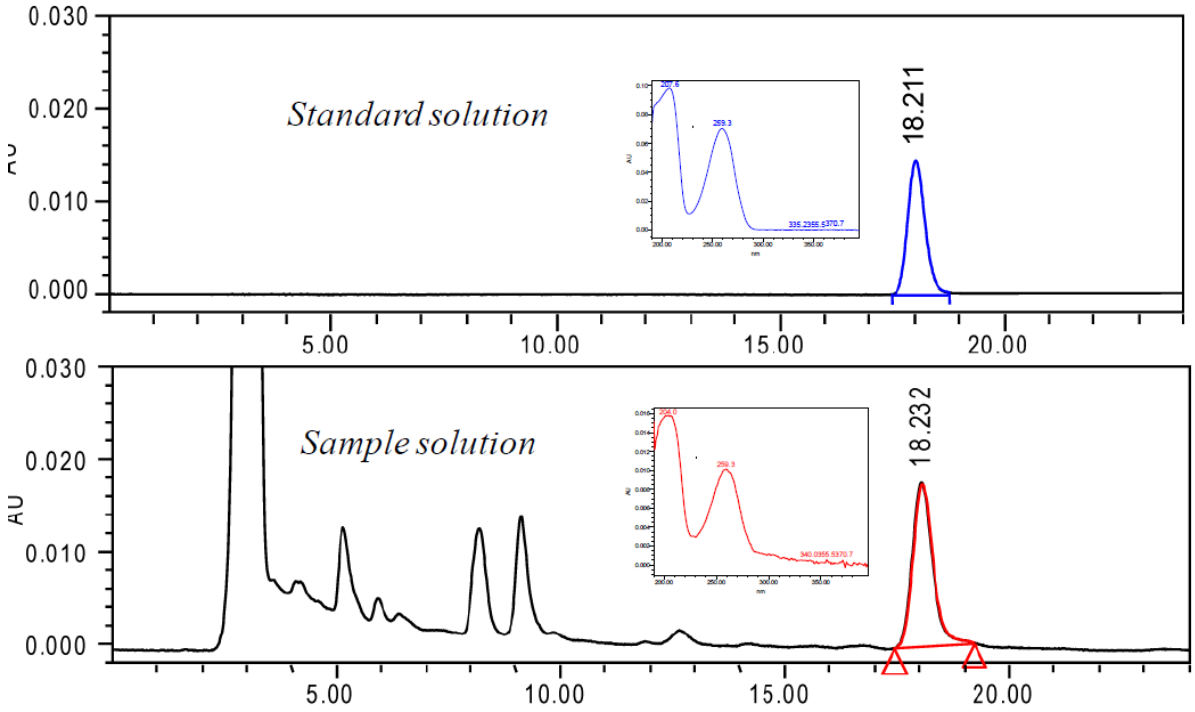
1) betulinic acid; **2)** oleanolic acid; **3)** ursolic acid; **4)** betulonic acid; **5)** oleanonic acid; **6)** ursonic acid; **7)** pomonic acid

Representative chromatogram of *HPLC for Triterpenic Acids* in *Ziziphus jujuba* Fruit

These chromatograms are supplied for information only

Solutions preparation:	according to the monograph for sample solution
Detector:	ELSD
Column:	4.6-mm × 25-cm; 5-µm packing L1 (Hypersil C18)
Column temperature:	25 ± 1°
Flow rate:	0.6 mL/min
Injection volume:	20 µL
Solution A:	5.0 mg/mL of ammonium acetate in water
Solution B:	methanol
Mobile phase:	*Solution A* and *Solution B* (17:38)

HPLC (Adenosine 3',5'-Cyclic Monophosphate, Specific test)



Representative chromatogram of *Content of Adenosine 3',5'-Cyclic Monophosphate* in *Ziziphus jujuba* Fruit

These chromatograms are supplied for information only

Solutions preparation:	according to the monograph for sample solution and standard solution
Detector:	UV 259 nm
Column:	4.6-mm × 25-cm; 5-µm packing L1 (Wondasil C18)
Column temperature:	30 ± 1°
Flow rate:	1.0 mL/min
Injection volume:	20 µL
Solution A:	0.05 mol potassium dihydrogen phosphate in 1000 mL of water
Solution B:	methanol
Mobile phase:	*Solution A* and *Solution B* (91:9)