

# Thunberg Fritillary Bulb (*Bulbus Fritillariae Thunbergii*) – 浙贝母

## Sample source

Commercially available Thunberg Fritillary Bulb

## Chemical reference substances

Peimine, Peinine

## Preparation of test solution

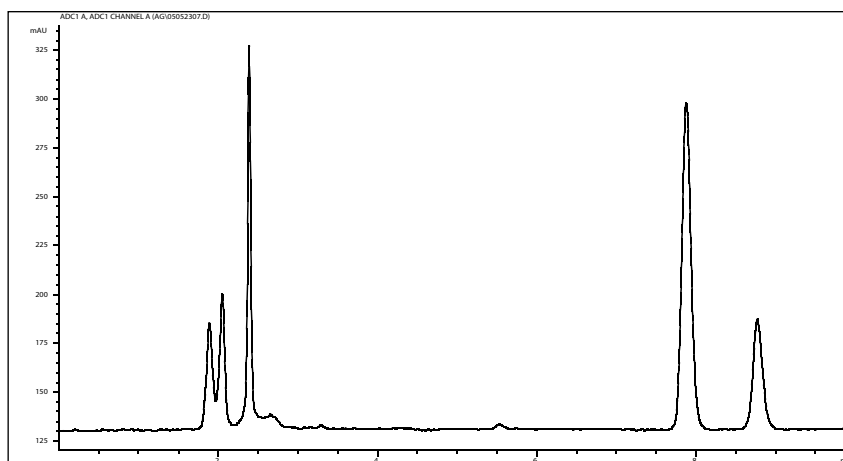
Accurately weigh 2 g of the powder in a flask, add 4 mL of strong ammonia TS and soak for 1 hour. Accurately add 40 mL of a mixture of chloroform and methanol (4:1), weigh, heat under reflux on a water bath at 80 °C for 2 hours, allow to cool and weigh again, replenish the lost solvent with the above mixture and filter. Accurately measure 10 mL of the filtrate and evaporate to dryness in an evaporating dish. Dissolve the residue with methanol, transfer to a 2 mL volumetric flask, dilute with methanol to volume and mix well.

## Chromatographic conditions

- Column: ZORBAX XDB C18 4.6×250 mm, 5 µm (990967-902)
- Column temperature: 40 °C
- Mobile phase: acetonitrile-3 % aqueous diethylamine solution (88:12)
- Evaporator tube temperature: 80°C, Nebulizing temperature: 50°C, Air flow rate: 1.5SLM
- Flow rate: 1.0 mL/min
- Injection volume: 10 µL

## Chromatographic system

- Agilent 1200 Series quaternary pump with vacuum degasser
- Agilent 1200 Series high-performance autosampler
- Agilent 1200 Series thermostated column compartment
- Agilent 35900 A/D converter
- ELSD PL-ELS 1000
- System control through Agilent ChemStation revision B.01.01



Components	k'	Ret Time (min)	Height (mAU)	Area (mAU's)	n	USP T <sub>r</sub>
Peimine	2.151	7.878	165.28	1326.7	22300	1.106
Peinine	2.509	8.773	54.92	445.7	26574	1.102