

# Naodesheng Tablets (*Naodesheng Pian*) – 脑得生片

## Sample source

Commercially available Naodesheng Tablets

## Chemical reference substances

1. Ginsenoside Rg1, 2. Ginsenoside Rb1, 3. Notoginsenoside R1 (National Institute for the Control of Pharmaceutical and Biological Products, Batch number 1.110703-200322, 2.0704-9710, 3.110745-200312)

## Preparation of test solution

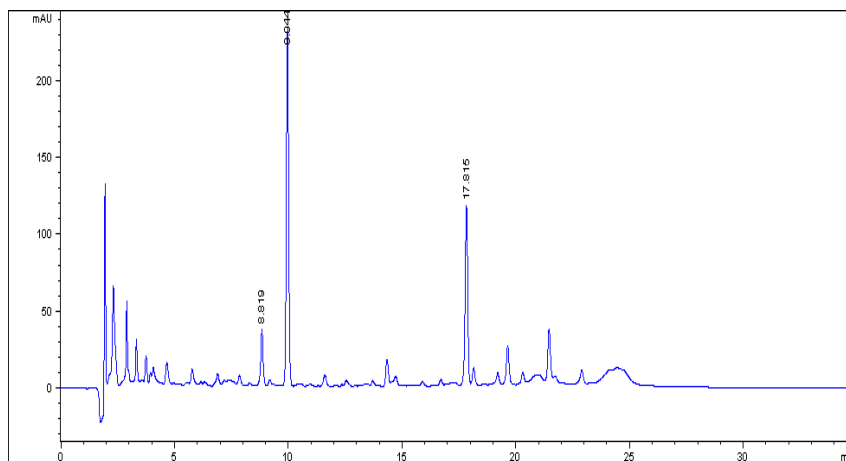
Remove the coating from 20 tablets, accurately weigh, grind well, accurately weigh 1 g in a stoppered conical flask, accurately add 50 mL of n-butanol saturated with water, stopper tightly and weigh. Treat ultrasonically for 20 minutes, allow to cool, weigh again, replenish the lost weight with n-butanol saturated with water, shake well and filter. Accurately measure 25 mL of the filtrate in a separating funnel, and wash twice with ammonia TS (15 ml, 10 ml). Evaporate the n-butanol solution to dryness, dissolve the residue in methanol, transfer to a 5 mL volumetric flask, add methanol to volume and shake well. Filter and use the filtrate as the test solution.

## Chromatographic conditions

- Column: ZORBAX XDB C18 4.6×250 mm, 5 µm (990967-902)
- Column temperature: 25 °C
- Mobile phase: A: acetonitrile, B: water; 0-20 min: 20-40% A, 20-26min: 40-20% A
- Detector wavelength: 203nm
- Flow rate: 1.0 mL/min
- Injection volume: 5 µL

## Chromatographic system

- Agilent 1200 Series quaternary pump with vacuum degasser
- Agilent 1200 Series high-performance autosampler
- Agilent 1200 Series thermostated column compartment
- Agilent 1200 Series diode-array detector
- 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>
notoginsenoside R1	2.528	8.819	36.89	267.2	39839	0.91
ginsenoside Rg1	2.977	9.944	231.45	1604.7	50644	1.05
ginsenoside Rb1	6.126	17.815	116.93	913.5	127711	0.93