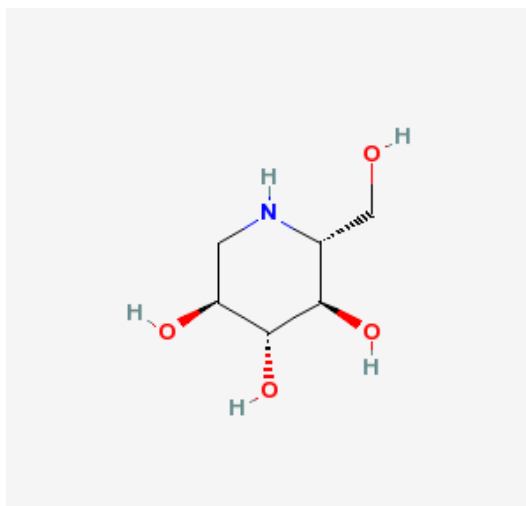


**Product ID:** PCM-MA-001  
**Marker For:** *Morus alba L.*  
**Name:** 1-Deoxynojirimycin  
**CAS Number:** 19130-96-2

**Structure:**

**Molecular Formula:**  $C_6H_{13}NO_4$   
**Molecular Weight:** 163.17172 [g/mol]  
**Melting Point:** 196-198°C  
**Solubility:** Respectively soluble in Water. Light soluble in Alcohol, Methanol. Insoluble in Aether, Benzene, Acetone.  
**Character:** White Crystalline Powder

**Storage Condition:**

**Package:** Brown glass bottle  
**Storage:** 5°C with good seal. Vacuum drying with P2O5 for 12 hours before using.

**Analytical Results:**

| Test          | Specificaiton | Result  |
|---------------|---------------|---------|
| HPLC          | NA            | 98.02%  |
| Mass Spectrum | Conforms      | Conform |

**Analysis Conditions:**

Intrument: Waters 600 HPLC Pump, Waters 717 Plus Autosampler,  
Alltech ELSD-2000

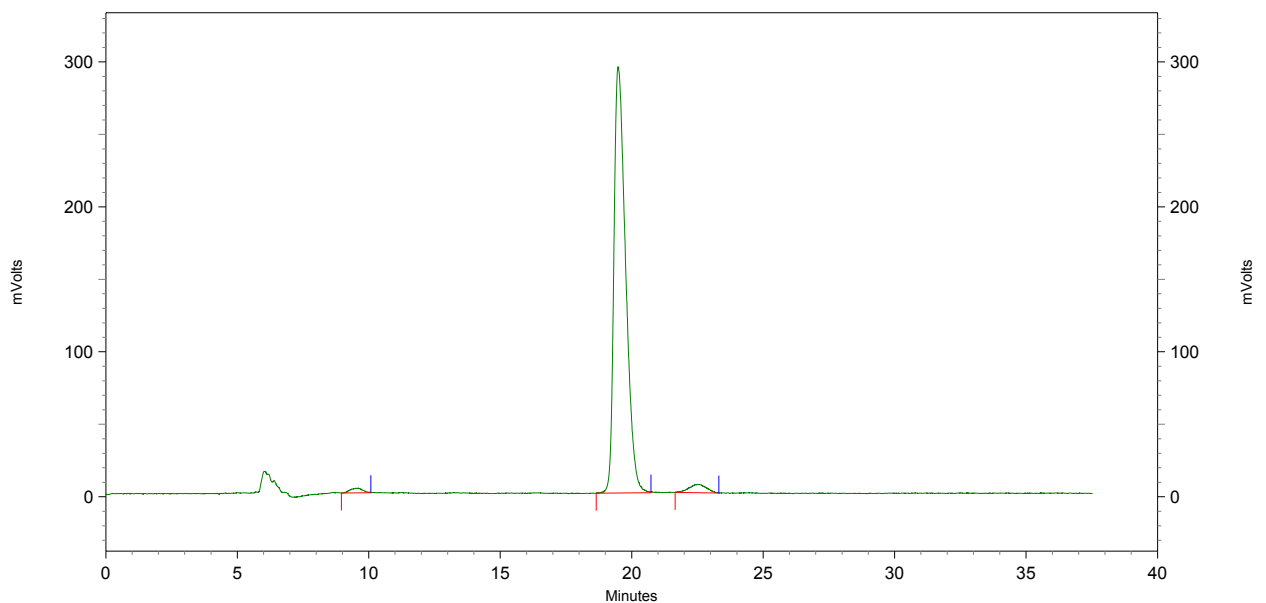
Column: Phenomenex-NH<sub>2</sub> 250\*4.6mm 5μ

Column Temperature: 25°C

Mobile Phase: Acetonitrile-5mmol/l Ammonium acetate Solution 70-30

Flow Rate: 1.0ml/min

Detection: ELSD Gas Flow: 2.0 L/ml, ELSD Tube Temp: 110°C

**HPLC Chormatogram of 1-Deoxynojirimycin:**

## MS Chormatogram of 1-Deoxynojirimycin:

100409-yangxu #46 RT: 0.66 AV: 1 NL: 4.78E6  
T: + c Q1MS [ 100.00-230.00]

