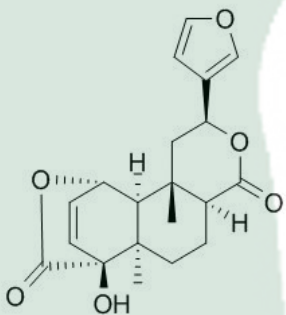


|                       |  |   |
|-----------------------|--|---|
| <b>PRODUCT ID</b>     | E-0257                                 | <b>Structure</b><br> |
| <b>PRODUCT</b>        | Isocolumbin /异古伦宾                      |   |
| <b>STANDARD TYPE</b>  | Quantitative Reference Material (含量测定) |   |
| <b>LOT NUMBER</b>     | 17032921                               |   |
| <b>ASSAY METHOD</b>   | HPLC,NMR                               |   |
| <b>DATE OF SAMPLE</b> | 2017-03-29                             |   |
| <b>DATE OF REPORT</b> | 2017-03-29                             |   |

|                             |   |
|-----------------------------|---|
| <b>CHEMICAL NAME</b>        | furanyl)-1,4,4a,5,6,6a,9,10,10a,10b-decahydro-4-hydroxy-4a,10a-dimethyl-, (1R,4S,4aS,6aR,9R,10aR,10bR)- |
| <b>OTHER NAME</b>           |   |
| <b>CHEMICAL FORMULA</b>     | C <sub>20</sub> H <sub>22</sub> O <sub>6</sub>  |
| <b>MOLECULAR WEIGHT(MW)</b> | 358.38508   |
| <b>CAS NUMBER</b>           | 471-545   |
| <b>CHEMICAL FAMILY</b>      | Diterpenoids 二萜类  |
| <b>FROM</b>                 | 防己科植物粉防己Stephania tetrandra S.Moore   |

#### ANALYTICAL RESULT

| TEST             | METHOD        | SPECIFICATION | RESULT   |
|------------------|---------------|---------------|----------|
| HPLC             | Q/TFFK89—2007 | NLT ≥98.0%    | Conforms |
| NMR              |               | Conforms      | Conforms |
| MS               |               | Conforms      | Conforms |
| Residual Solvent | Q/TFFK89—2007 | NA            | ND       |
| Water            | Q/TFFK89—2007 | ≤2%           | Conforms |
| Appearance       |               | white powder  | Conforms |

#### STORAGE CONDITIONS

|            |                    |
|------------|--------------------|
| STORAGE    | Refer to the label |
| SHELF LIFE | 2 Years            |

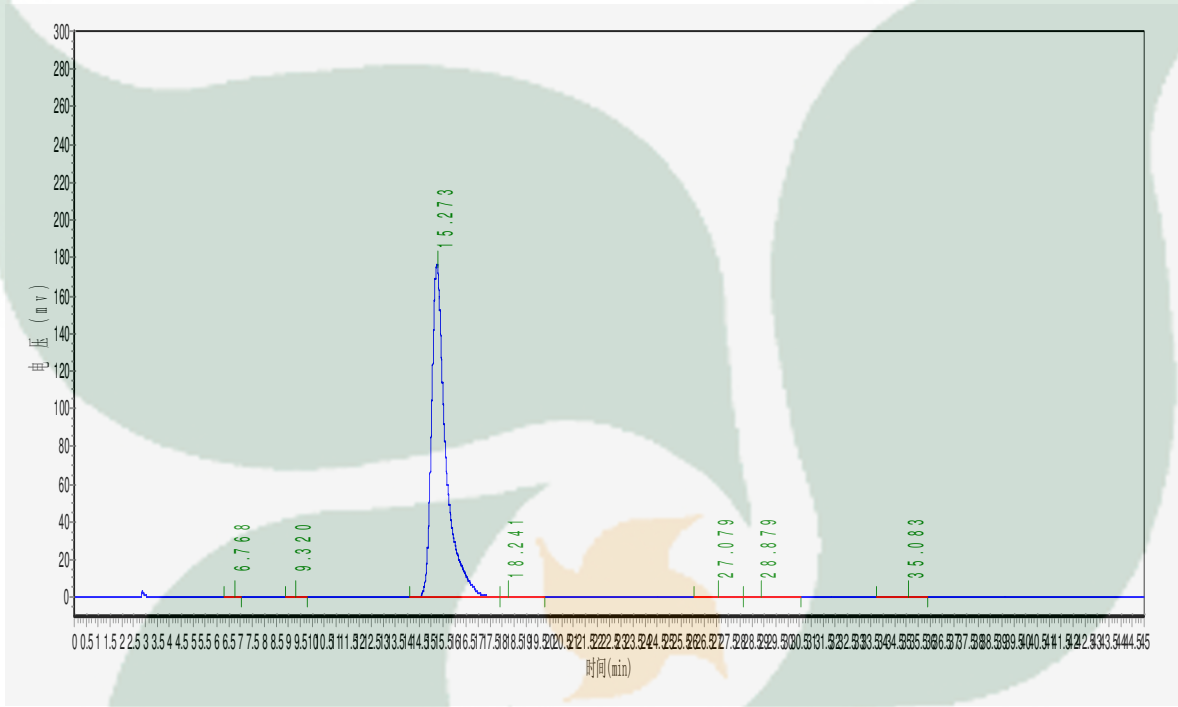
Analyst

Checker

Manager

# Product Analysis Report

**Product Name:** Isocolumbin      **Chrom-Column:** C18  
**Lot Number:** 17032921      **Mobile Phase:** MeOH:H2O=40:60  
**Temperature:** 25°C      **Wavelength:** 217nm  
**Detect Time:** 2017-03-29      **Inject Vol:** 20μL  
**Analyst:** shuzhilin      **Flow:** 1ml/min



| No. | Ret.Time<br>min | Height<br>mAU | Area<br>mAU*min | Rel.Area<br>% |
|-----|-----------------|---------------|-----------------|---------------|
| 1   | 6.768           | 137.000       | 3050.850        | 0.0410        |
| 2   | 9.320           | 171.889       | 4182.600        | 0.0562        |
| 3   | 15.273          | 175861.469    | 7402054.000     | 99.4745       |
| 4   | 18.241          | 334.353       | 21704.035       | 0.2917        |
| 5   | 27.079          | 40.512        | 3818.318        | 0.0513        |
| 6   | 28.879          | 41.220        | 3325.983        | 0.0447        |
| 7   | 35.083          | 45.750        | 3019.600        | 0.0406        |