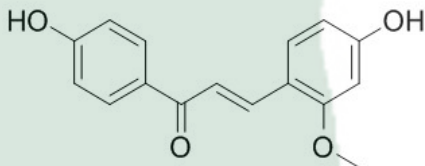


|                       |  |  |
|-----------------------|--|--|
| <b>PRODUCT ID</b>     | E-2360                                 | <b>Structure</b><br> |
| <b>PRODUCT</b>        | Echinatin/刺甘草查尔酮                       |  |
| <b>STANDARD TYPE</b>  | Quantitative Reference Material (含量测定) |  |
| <b>LOT NUMBER</b>     | 17062921                               |  |
| <b>ASSAY METHOD</b>   | HPLC,MS,NMR                            |  |
| <b>DATE OF SAMPLE</b> | 2017-06-29                             |  |
| <b>DATE OF REPORT</b> | 2017-06-29                             |  |

|                             |  |
|-----------------------------|--|
| <b>OTHER NAME</b>           | 4'-Dihydroxy-2-methoxychalcone                 |
| <b>CHEMICAL FORMULA</b>     | C <sub>16</sub> H <sub>14</sub> O <sub>4</sub> |
| <b>MOLECULAR WEIGHT(MW)</b> | 270.28   |
| <b>CAS NUMBER</b>           | 34221-41-5                                     |
| <b>CHEMICAL FAMILY</b>      | Chalcones查尔酮类                                  |
| <b>FROM</b>                 | 甘草Glycyrrhiza uralensis Fisch                  |

**ANALYTICAL RESULT**

| TEST                    | METHOD        | SPECIFICATION | RESULT   |
|-------------------------|---------------|---------------|----------|
| HPLC                    | Q/TFFK88—2007 | NLT ≥98.0%    | Conforms |
| NMR                     |               | Conforms      | Conforms |
| MS                      |               | Conforms      | Conforms |
| <b>Residual Solvent</b> | Q/TFFK88—2007 | NA            | ND       |
| <b>Water</b>            | Q/TFFK88—2007 | ≤2%           | Conforms |
| <b>Appearance</b>       |               | Yellow Powder | Conforms |

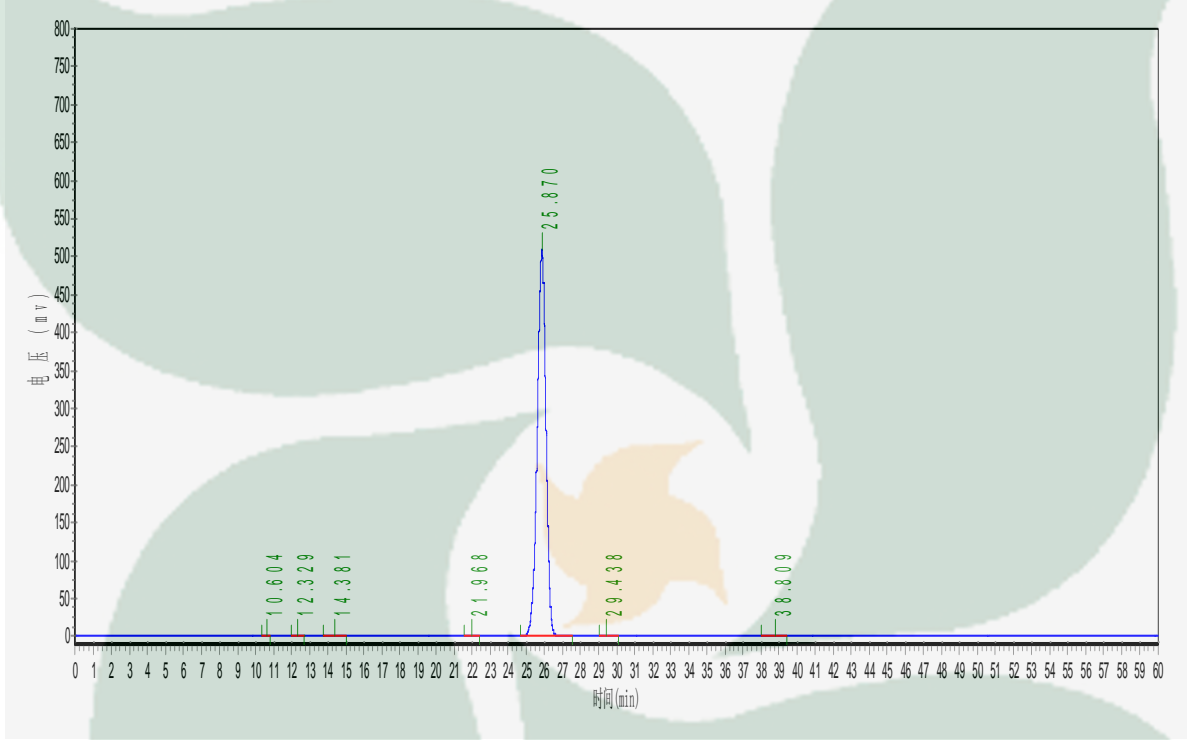
**STORAGE CONDITIONS**

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

**Analyst**
**Checker**
**Manager**

# Product Analysis Report

**Product Name:** Echinatin      **Chrom-Column:** C18  
**Lot Number:** 17062921      **Mobile Phase:** ACN:0.1%H3PO4=30:70  
**Detector:** UV      **Wavelength:** 326nm  
**Detect Time:** 2017-06-29      **Inject Vol:** 20ul  
**Analyst:** shuzhilin      **Flow:** 1.0ml/min



| No. | Ret.Time<br>min | Height<br>mAU | Area<br>mAU*min | Rel.Area<br>% |
|-----|-----------------|---------------|-----------------|---------------|
| 1   | 10.604          | 489.678       | 6215.700        | 0.0362        |
| 2   | 12.329          | 665.960       | 11747.054       | 0.0684        |
| 3   | 14.381          | 1579.317      | 37646.730       | 0.2191        |
| 4   | 21.968          | 175.581       | 4588.047        | 0.0267        |
| 5   | 25.870          | 509492.000    | 17110724.000    | 99.5910       |
| 6   | 29.438          | 184.658       | 4512.558        | 0.0263        |
| 7   | 38.809          | 128.019       | 5560.632        | 0.0324        |