



同田生物  
TAUTO BIOTECH

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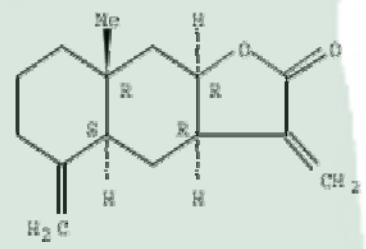
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|                |                                      |                                                                                                        |
|----------------|--------------------------------------|--------------------------------------------------------------------------------------------------------|
| PRODUCT ID     | E-0618                               | <b>Structure</b><br> |
| PRODUCT        | Isoalantolactone /异土木香内酯             |                                                                                                        |
| STANDARD TYPE  | Quantitative Reference Standard/含量测定 |                                                                                                        |
| LOT NUMBER     | 17022821                             |                                                                                                        |
| ASSAY METHOD   | HPLC,NMR                             |                                                                                                        |
| DATE OF SAMPLE | 2017-02-28                           |                                                                                                        |
| DATE OF REPORT | 2017-02-28                           |                                                                                                        |

|                     |                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------|
| CHEMICAL NAME       | Naphtho[2,3-b]furan-2(3H)-one, decahydro-8a-methyl-3,5-bis(methylene)-, (3aR,4aS,8aR,9aR)- |
| OTHER NAME          | Isohelenin                                                                                 |
| CHEMICAL FORMULA    | C15 H20 O2                                                                                 |
| MOLECULAR WEIGHT(MV | 232.32                                                                                     |
| CAS NUMBER          | 470-17-7                                                                                   |
| CHEMICAL FAMILY     | Sesquiterpene lactones 倍半萜内酯类                                                              |
| FROM                | Inula helenium L.                                                                          |

#### ANALYTICAL RESULT

| TEST             | METHOD         | SPECIFICATION  | RESULT   |
|------------------|----------------|----------------|----------|
| HPLC             | Q/TFFK511—2007 | NLT ≥98.0%     | Conforms |
| NMR              |                | Conforms       | Conforms |
| MS               |                | Conforms       | Conforms |
| Residual Solvent | Q/TFFK511—2007 | NA             | ND       |
| Water            | Q/TFFK511—2007 | ≤2%            | Conforms |
| Appearance       |                | White Crystals | Conforms |

#### STORAGE CONDITIONS

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

Analyst

Checker

Manager

# Product Analysis Report

**Product Name:** Isoalantolactone

**Chrom-Column:** C18

**Lot Number:** 17022821

**Mobile Phase:** ACN:  
0.1%H3PO4=62:38

**Detector:** UV

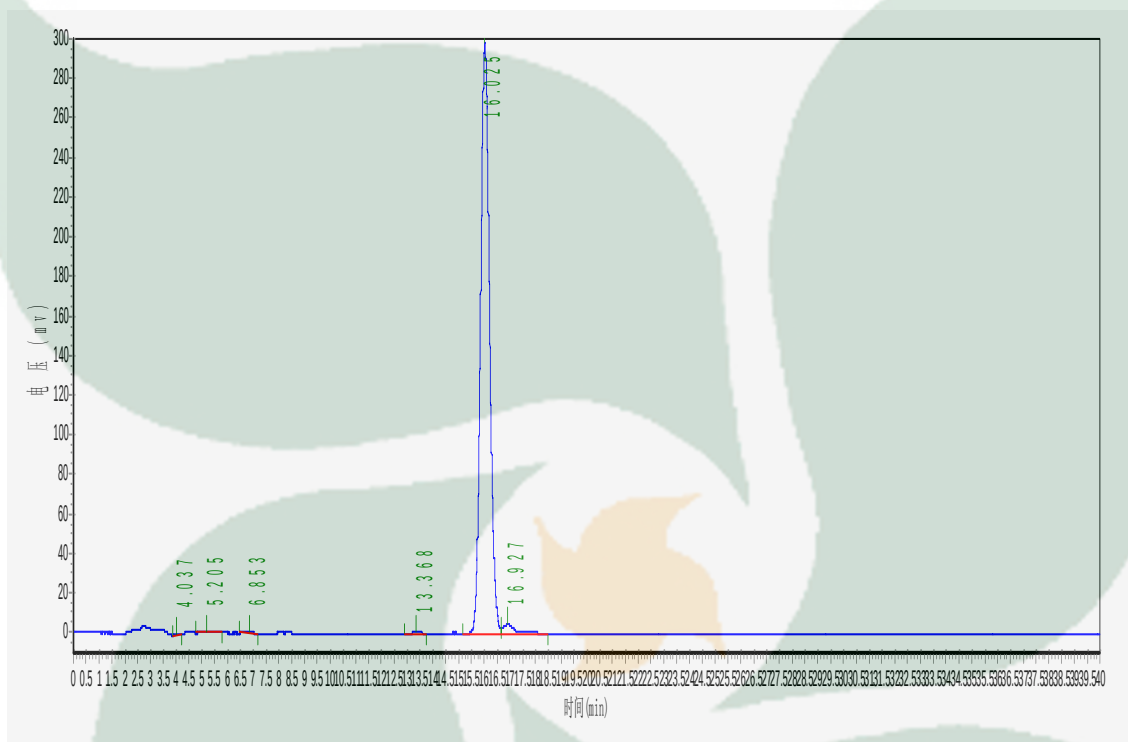
**Wavelength:** 220nm

**Detect Time:** 2017-02-28

**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   | 4.037           | 356.970       | 3734.550        | 0.0508        |
| 2   | 5.205           | 169.916       | 4412.600        | 0.0600        |
| 3   | 6.853           | 217.759       | 3463.150        | 0.0471        |
| 4   | 13.368          | 201.341       | 3722.900        | 0.0506        |
| 5   | 16.025          | 298402.250    | 7217652.000     | 98.1565       |
| 6   | 16.927          | 4473.528      | 120222.570      | 1.6350        |