

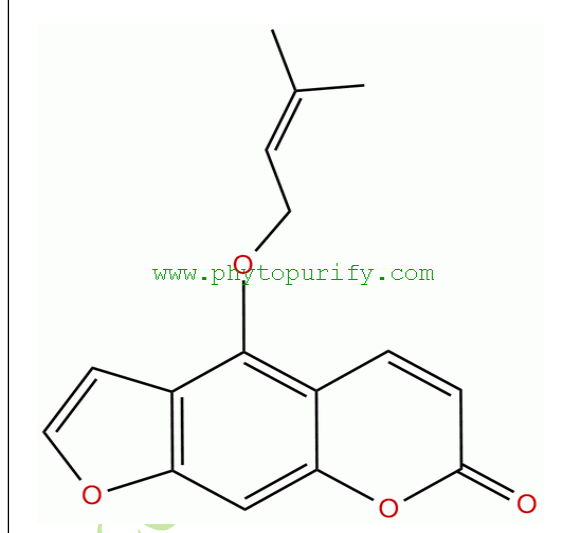


成都普瑞法科技开发有限公司  
Chengdu Biopurify Phytochemicals Ltd.

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## Certificate of Analysis

Structure:



**Product Name:** Isoimperatorin

**Catalogue No.:** BP0785

**Batch No.:** 13052110

**Report date:** 2013-05-21

**CAS Number:** 482-45-1

**Mol. Formula:** C<sub>16</sub>H<sub>14</sub>O<sub>4</sub>

**Mol. Weight:** 270.284

**Type of compound:**

**Identification Method:** Mass, NMR

**Analysis Method of Purity:** HPLC-DAD

**Analytical result:**

| Test                  | Specification | Results      |
|-----------------------|---------------|--------------|
| Appearance            | White powder  | White powder |
| Loss on drying        | <3.0%         | 0.9 %        |
| Purity (HPLC, 310nm)* | ≥98.0%        | 99.53%       |

\* Please find HPLC chromatography attached.

**Package:** Brown vial or HDPE Plastic Bottle

**Storage:** Cool and Dry place, protected from light, keep package airproofed when not in use.

**Expiration:** two years (2015-05-21) under conditions list above.

QC: Meng Pan

Date: 2013-05-21

QA: Lianglei Zhang

Date: 2013-05-21



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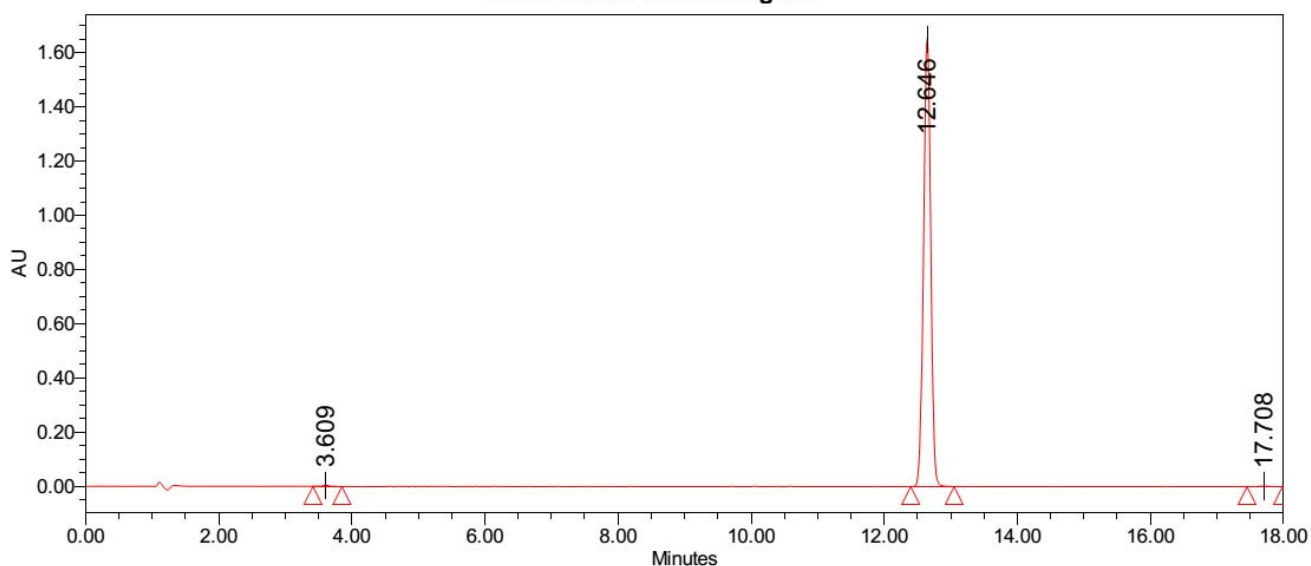


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### SAMPLE INFORMATION

|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Sample Name:      | Isoimperatorin13052110 | Acquired By:        | panmeng        |
| Sample Type:      | Unknown                | Sample Set Name:    |                |
| Vial:             | 1:C,7                  | Acq. Method Set:    | Isoimperatorin |
| Injection #:      | 1                      | Processing Method:  | Samples        |
| Injection Volume: | 10.00 ul               | Channel Name:       | 310.0nm        |
| Run Time:         | 20.0 Minutes           | Proc. Chnl. Descr.: | PDA 310.0 nm   |
| Date Acquired:    | 2013-5-21 14:56:34 CST |                     |                |
| Date Processed:   | 2013-5-21 15:19:31 CST |                     |                |

### Auto-Scaled Chromatogram



### Peak Results

|   | Name | RT     | Area     | % Area | USP Plate Count | USP Resolution |
|---|------|--------|----------|--------|-----------------|----------------|
| 1 |      | 3.609  | 39038    | 0.31   | 7124.10         |                |
| 2 |      | 12.646 | 12416070 | 99.53  | 64306.35        | 42.41          |
| 3 |      | 17.708 | 19385    | 0.16   | 13352.83        | 10.38          |