



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

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## Certificate of Analysis

**Product Name:** Protosappanin B

**Other Name:**

**Catalogue No.:** BP1160

**Batch No.:** 14123126

**Report date:** 2014-12-31

**CAS Number:** 102036-29-3

**Mol. Formula:** C<sub>16</sub>H<sub>16</sub>O<sub>6</sub>

**Mol. Weight:** 304.298

**Type of compound:**

**Identification Method:** Mass, NMR

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

**Structure:**



**Analytical result:**

| Test                 | Specification      | Results            |
|----------------------|--------------------|--------------------|
| Appearance           | Pale orange powder | Pale orange powder |
| Loss on drying       | <3.0%              | 1.6%               |
| Purity (HPLC,280nm)* | ≥98.0%             | 98.54%             |

\* 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 (2016-12-30) under conditions list above.

QC: *Meng Pan*

Date: 2014-12-31

QA: *Lianglei Zhang*

Date: 2014-12-31

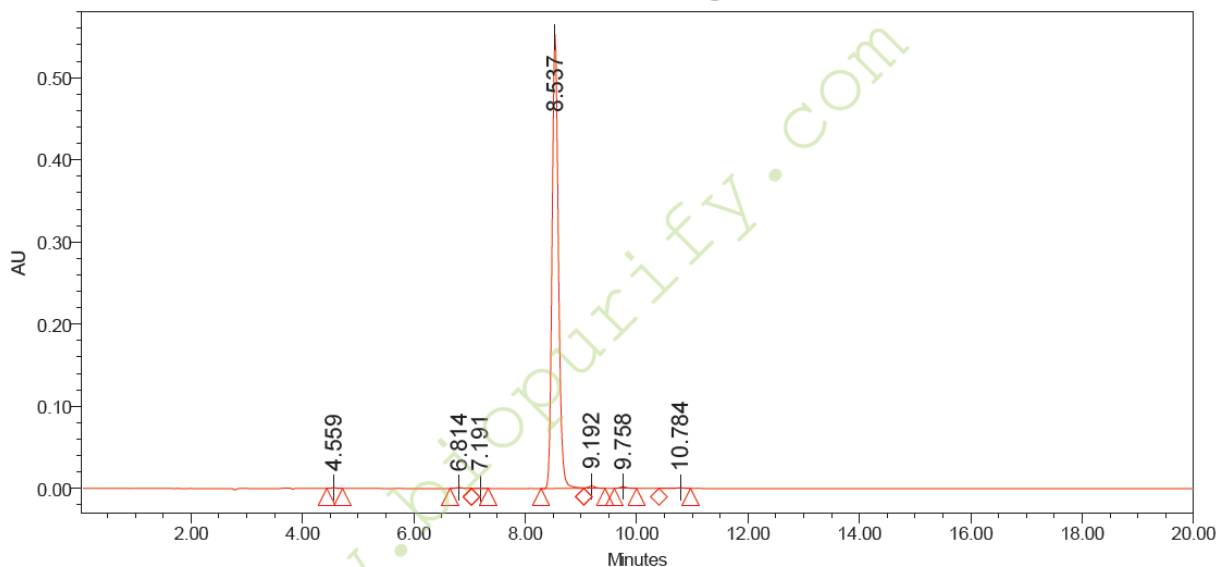


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## SAMPLE INFORMATION

|                   |                          |                     |                 |
|-------------------|--------------------------|---------------------|-----------------|
| Sample Name:      | Protosappanin B 14123126 | Acquired By:        | System          |
| Sample Type:      | Unknown                  | Sample Set Name:    |                 |
| Vial:             | 1:C,3                    | Acq. Method Set:    | Protosappanin B |
| Injection #:      | 1                        | Processing Method:  | QC              |
| Injection Volume: | 10.00 ul                 | Channel Name:       | 280.0nm         |
| Run Time:         | 20.0 Minutes             | Proc. Chnl. Descr.: | PDA 280.0 nm    |
| Date Acquired:    | 2014-12-31 14:12:40 CST  |                     |                 |
| Date Processed:   | 2014-12-31 16:29:56 CST  |                     |                 |

## Auto-Scaled Chromatogram



## Peak Results

|   | Name | RT     | Area    | % Area | USP Plate Count | USP Resolution |
|---|------|--------|---------|--------|-----------------|----------------|
| 1 |      | 4.559  | 4353    | 0.10   | 12436           |                |
| 2 |      | 6.814  | 8350    | 0.19   | 17429           | 12.03          |
| 3 |      | 7.191  | 2491    | 0.06   | 20269           | 1.82           |
| 4 |      | 8.537  | 4381013 | 98.54  | 26982           | 6.50           |
| 5 |      | 9.192  | 25459   | 0.57   | 24521           | 2.88           |
| 6 |      | 9.758  | 15851   | 0.36   | 35184           | 2.46           |
| 7 |      | 10.784 | 8305    | 0.19   | 36491           | 4.58           |