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## Certificate of Analysis

**Product Name:** Morroniside

**Other Name:**

**Catalogue No.:** BP0960

**Batch No.:** 15012826

**Report date:** 2015-01-28

**CAS Number:** 25406-64-8

**Mol. Formula:** C<sub>17</sub>H<sub>26</sub>O<sub>11</sub>

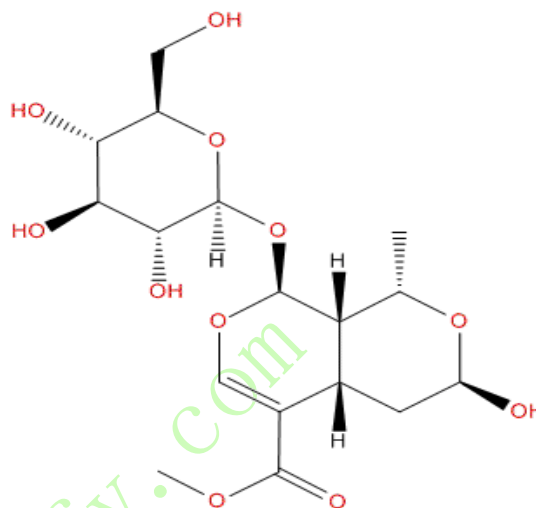
**Mol. Weight:** 406.38

**Type of compound:**

**Identification Method:** Mass, NMR

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

**Structure:**



### Analytical result:

| Test                  | Specification | Results      |
|-----------------------|---------------|--------------|
| Appearance            | White powder  | White powder |
| Loss on drying        | <3.0%         | 1.5%         |
| Purity (HPLC,240nm) * | ≥98.0%        | 97.18%       |

\* 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 (2017-01-27) under conditions list above.

QC: *Meng Pan*

Date: 2015-01-28

QA: *Lianglei Zhang*

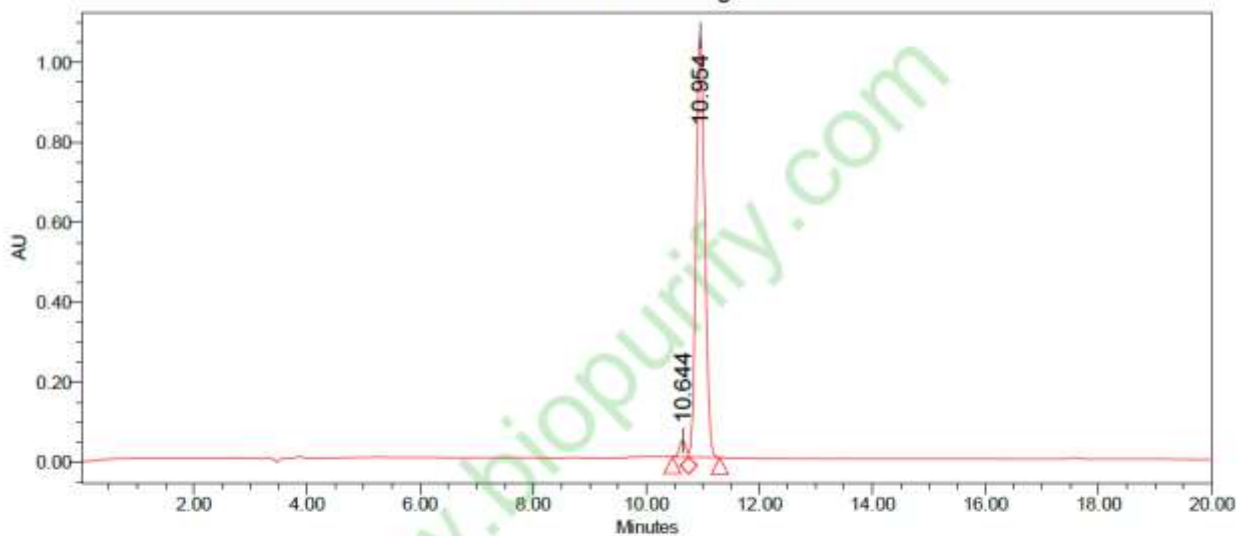
Date: 2015-01-28



### SAMPLE INFORMATION

|                   |                        |                     |              |
|-------------------|------------------------|---------------------|--------------|
| Sample Name:      | Morroniside 15012826   | Acquired By:        | System       |
| Sample Type:      | Unknown                | Sample Set Name:    |              |
| Vial:             | 27                     | Acq. Method Set:    | Morroniside  |
| Injection #:      | 1                      | Processing Method:  | Samples      |
| Injection Volume: | 10.00 ul               | Channel Name:       | 240.0nm      |
| Run Time:         | 20.0 Minutes           | Proc. Chnl. Descr.: | PDA 240.0 nm |
| Date Acquired:    | 2015-1-28 16:29:44 CST |                     |              |
| Date Processed:   | 2015-1-28 16:50:57 CST |                     |              |

### Auto-Scaled Chromatogram



### Peak Results

|   | Name | RT     | Area     | % Area | USP Plate Count | USP Resolution |
|---|------|--------|----------|--------|-----------------|----------------|
| 1 |      | 10.644 | 326713   | 2.82   | 40679.36        |                |
| 2 |      | 10.954 | 11245100 | 97.18  | 23702.80        | 1.23           |