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## Certificate of Analysis

**Product Name:** Palmitic acid

**Other Name:** Hexadecanoic acid

**Catalogue No.:**

**Batch No.:** 14050702

**Report date:** 2014-05-07

**CAS Number:** 57-10-3

**Mol. Formula:** C<sub>16</sub>H<sub>32</sub>O<sub>2</sub>

**Mol. Weight:** 256.42

**Botanical Source:** Olibanum

**Type of compound:**

**Identification Method:** Mass, NMR

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

**Structure:**



**Analytical result:**

| Test                 | Specification | Results              |
|----------------------|---------------|----------------------|
| Appearance           | White Powder  | Off-white waxy solid |
| Loss on drying       | <3.0%         | 1.0%                 |
| Purity (HPLC, ELSD)* | ≥98.0%        | 99.25%               |

\* 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 (2016-05-07) under conditions list above.

QC: *Meng Pan*

Date: 2014-05-07

QA: *Lianglei Zhang*

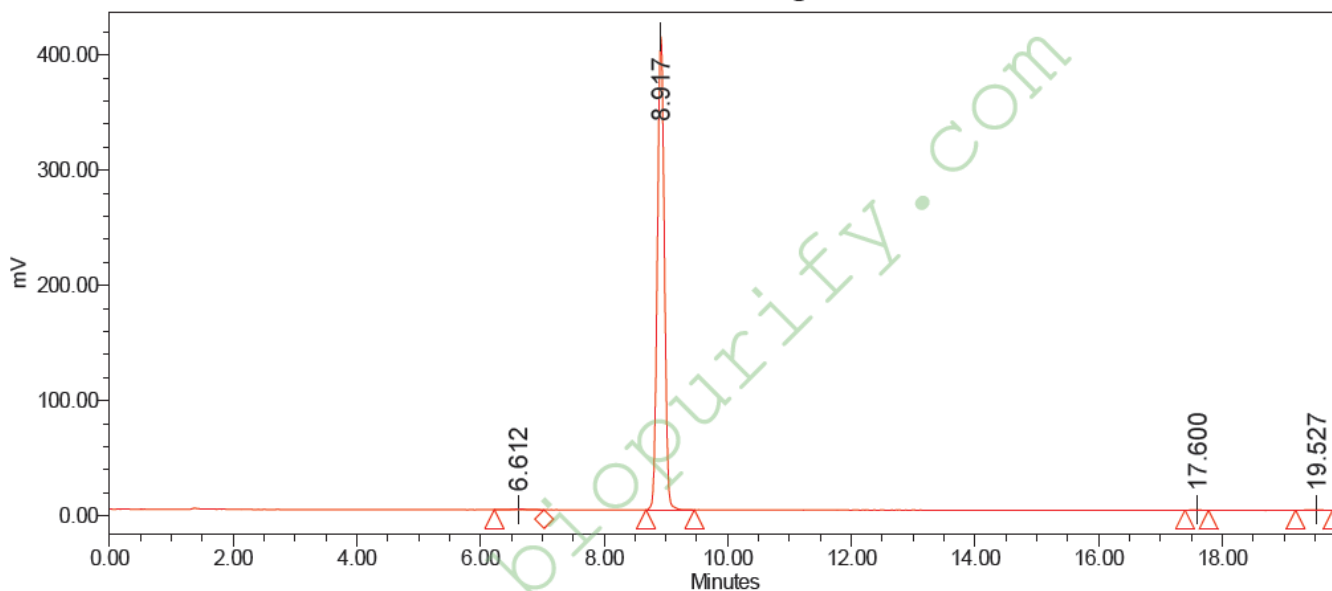
Date: 2014-05-07



## SAMPLE INFORMATION

|                   |                       |                     |               |
|-------------------|-----------------------|---------------------|---------------|
| Sample Name:      | Palmitic acid14050702 | Acquired By:        | System        |
| Sample Type:      | Unknown               | Sample Set Name:    |               |
| Vial:             | 1:C,3                 | Acq. Method Set:    | Palmitic acid |
| Injection #:      | 1                     | Processing Method:  | Samples       |
| Injection Volume: | 10.00 ul              | Channel Name:       | SATIN         |
| Run Time:         | 20.0 Minutes          | Proc. Chnl. Descr.: |               |
| Date Acquired:    | 2014-5-7 13:32:42 CST |                     |               |
| Date Processed:   | 2014-5-7 15:37:01 CST |                     |               |

## Auto-Scaled Chromatogram



## Peak Results

|   | Name | RT     | Area    | % Area | USP Plate Count | USP Resolution |
|---|------|--------|---------|--------|-----------------|----------------|
| 1 |      | 6.612  | 13386   | 0.41   | 3557.26         |                |
| 2 |      | 8.917  | 3231838 | 99.25  | 28562.16        | 3.95           |
| 3 |      | 17.600 | 3969    | 0.12   | 109799.82       | 40.53          |
| 4 |      | 19.527 | 7135    | 0.22   | 38097.32        | 5.12           |