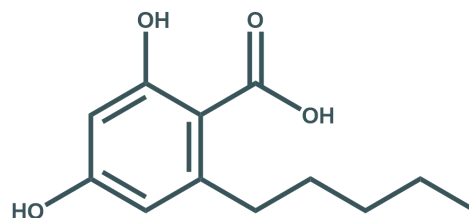


# Certificate of Analysis

## Olivetolic acid

**Product No.:** BA70  
**Lot No.:** BA70-20250227  
**Description of CRM:** Olivetolic acid  
**Chemical formula:** C<sub>12</sub>H<sub>16</sub>O<sub>4</sub>  
**CAS No.:** 491-72-5  
**Mfg. Date:** Feb.27, 2025  
**Retest Date:** February 2026  
**Storage:** Store unopened in cold (2 °C to -8 °C).

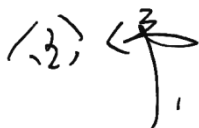


**Quantity:** 2Kg  
**Appearance:** White powder  
**Packaging:** Plastic bottle  
**Details on starting** Each raw material utilized has been identified and thoroughly characterized through.  
**Materials:** The use of multiple analytical techniques and is assigned a Mass Balance Purity Factor. Spectral data is provided on subsequent pages of this COA.  
**Certificate of Origin:** Blazer Corporation certifies no material of animal origin (BSE/TSE) was used in the preparation of this product .  
**Country of Origin:** China

Quality Assurance Manager

**Feb 27, 2025**

Issue Date



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Email: [sales@qxscientific.com](mailto:sales@qxscientific.com)

Website: [www.qxchemicals.com](http://www.qxchemicals.com)

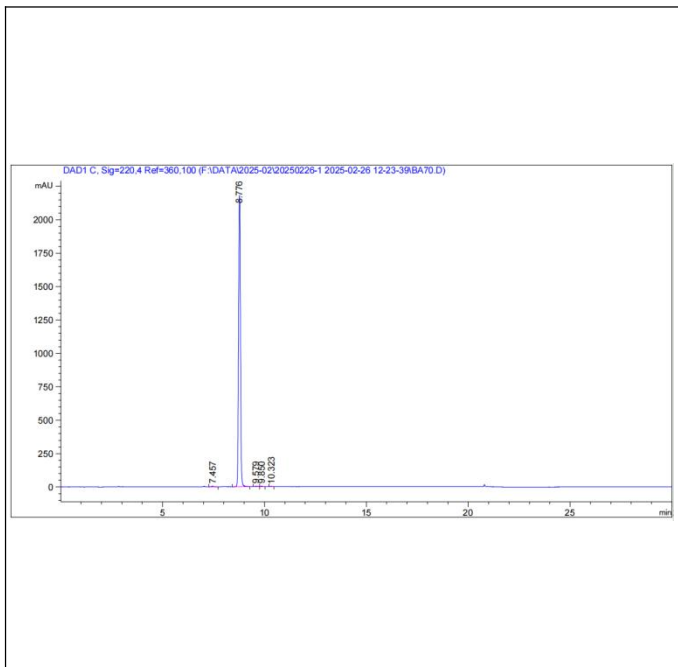
**Analyte Certification - Mass Balance Purity Factor**

Each analyte is thoroughly identified and characterized using an orthogonal approach. A mass balance purity factor is assigned incorporating chromatographic purity and residual impurities. The mass balance purity factor is utilized to calculate the weighing adjustment necessary to ensure accuracy of the solution standard concentration.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                           |                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------|------------------------------------------------|
| <b>Material Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Olivetolic acid | <b>Chemical Formula:</b>  | C <sub>12</sub> H <sub>16</sub> O <sub>4</sub> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 | <b>CAS Number:</b>        | 491-72-5                                       |
| <b>Material Lot:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BA70-20250227   | <b>Molecular Weight:</b>  | 224.25                                         |
| <b>Material Characterization Summary</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                           |                                                |
| <b>Analytical Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 | <b>Stanard</b>            | <b>Results</b>                                 |
| Chromatographic Purity by HPLC/UV Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | ≥98%                      | 99.31%                                         |
| Identity by LC/MS Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | Consistent with Structure | Consistent with Structure                      |
| Identity by <sup>1</sup> H-NMR Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | Consistent with Structure | Consistent with Structure                      |
| Residual Water Analysis by Karl Fischer Coulometry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 | 1%                        | 0.4%                                           |
| Mass Balance Purity Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |                           | 99.31%                                         |
| <div>• The chromatographic purity is calculated as the average of two independently performed analyses utilizing two different methods. Acceptance criteria requires the purity values to be within 0.5% of each other.</div> <div>• The chromatographic purity value is used to calculate the Mass Balance Purity Factor.</div> <div>• Mass Balance Purity Factor = [(100 - wt% residual solvent - wt% residual water - wt% residual inorganics)xChromatographic Purity/100].</div> <div>• Mass Balance Purity Factor does not include adjustment for chiral and/or isotopic purity.</div> |                 |                           |                                                |

## Spectral and Physical Data

### HPLC/UV



**Column:** Ascentis Express C18, 2.7  $\mu$ m, 3.0 x 100 mm

**Mobile Phase:** A: Acetonitrile  
B: 0.1% Phosphoric acid in Water

**Gradient:**

| Time (min) | % A | % B |
|------------|-----|-----|
| 0.0        | 40  | 60  |
| 5.0        | 70  | 30  |
| 10.0       | 90  | 10  |
| 15.0       | 90  | 10  |
| 25.0       | 95  | 5   |
| 25.1       | 40  | 60  |
| 27.0       | 40  | 60  |

**Flow Rate:** 0.8 mL/min

**Wavelength:** 220 nm

**Sample Name** BA70-20250227

**Acquired:** Feb.27, 2025

| Peak # | Ret Time | Area %  |
|--------|----------|---------|
| 1      | 7.457    | 0.1939  |
| 2      | 8.776    | 99.3065 |
| 3      | 9.579    | 0.1970  |
| 4      | 9.850    | 0.1535  |
| 5      | 10.323   | 0.1491  |

<sup>1</sup>H NMR

Instrument:

JEOL ECZ400S

Solvent:

Choloform- D

