

# Certificate of Analysis

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**Product Name:** Leukotriene B<sub>4</sub>

**Catalog No.:** 2307

**Batch No.:** 9

**CAS Number:** 71160-24-2

**IUPAC Name:** (5S,6Z,8E,10E,12R,14Z)-5,12-Dihydroxy-6,8,10,14-eicosatetraenoic acid

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>32</sub>O<sub>4</sub>

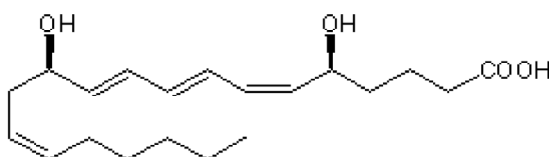
**Batch Molecular Weight:** 336.47

**Physical Appearance:** Colourless liquid

**Solubility:** Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 50µg/ml)

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.2% purity

**Mass Spectrum:** Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Leukotriene B<sub>4</sub> is a potent lipid inflammatory mediator derived from the 5-lipoxygenase pathway of arachidonic acid metabolism. Binds to BLT<sub>1</sub> and BLT<sub>2</sub> receptors and acts as a potent chemotactic agent and activator of leukocytes. Also displays antiviral activity towards DNA viruses and retroviruses.

**Physical and Chemical Properties:**

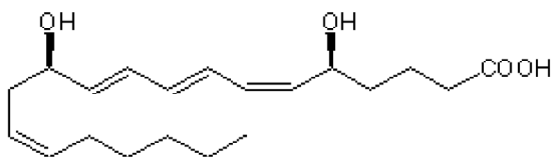
Batch Molecular Formula: C<sub>20</sub>H<sub>32</sub>O<sub>4</sub>

Batch Molecular Weight: 336.47

Physical Appearance: Colourless liquid

**Minimum Purity:** ≥97%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 50µg/ml)

**CAUTION** - This product is supplied dissolved in anhydrous ethanol at a concentration of 50ug/ml. Aqueous solutions should be stored on ice and used within 12 hours of preparation.

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Yokomitso *et al*** (2001) Leukotriene B<sub>4</sub>: metabolism and signal transduction. *Arch.Biochem.Biophys.* **385** 231. PMID: 11368003.

**Ford-Hutchinson** (1990) Leukotriene B<sub>4</sub> in inflammation. *Crit.Rev.Immunol.* **10** 1. PMID: 2155000.

**Bray *et al*** (1981) Leukotriene B<sub>4</sub>: an inflammatory mediator in vivo. *Prostaglandins* **22** 213. PMID: 6270742.

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