

Certificate of Analysis

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Product Name: Arachidonic acid (in Tocrisolve™100)

CAS Number: 506-32-1

IUPAC Name: 5Z,8Z,11Z,14Z-Eicosatetraenoic acid

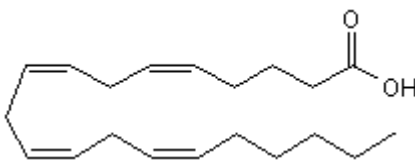
Catalog No.: 2756

Batch No.: 4

EC Number: 208-033-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₃₂O₂
Batch Molecular Weight: 304.47
Physical Appearance: White emulsion
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0% purity

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

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Description:

Endogenous free fatty acid released from phospholipids by phospholipase A₂, in water-soluble emulsion (for details see Tocrisolve™ 100, Cat. No. 1684). Important cellular signaling mediator and precursor of eicosanoids. Metabolized by lipoxygenases, cyclooxygenases and cytochrome P450 monooxygenases.

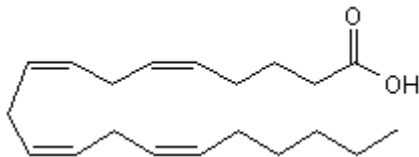
Physical and Chemical Properties:

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References:

Nakanishi et al (2006) Roles of cPLA_{2α} and arachidonic acid in cancer. *Biochim.Biophys.Acta* **1761** 1335. PMID: 17052951.

Levick et al (2007) Arachidonic acid metabolism as a potential mediator of cardiac fibrosis associated with inflammation. *J.Immunol.* **178** 641. PMID: 17202322.

Higuchi et al (2007) Arachidonic acid promotes glutamate-induced cell death associated with necrosis by 12-lipoxygenase activation in glioma cells. *Life Sci.* **80** 1856. PMID: 17400255.

Storage: Store at +4°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:

CAUTION - This product must **not** be frozen.

Stability and Solubility Advice:

This product must not be frozen and should be stored at +4°C. Provided that the lid is kept tightly sealed this product will be useable for up to one month.

We recommend that diluted solutions of the Tocrisolve product should be used immediately and must not be frozen.

Other Information:

This product is supplied dissolved at a concentration of 11.3 mg/ml in a soya oil / water (1:4) emulsion. The formulation is emulsified with the block co-polymer, Pluronic F68. It can be diluted with any aqueous medium. This product must not be frozen.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956