

# Chemically Defined Lipid Concentrate

## Description

Chemically Defined Lipid Concentrate is a concentrated lipid emulsion designed to reduce or replace fetal bovine serum in cell culture media. Chemically Defined Lipid Concentrate is a completely defined combination of saturated and unsaturated fatty acids appropriate for use in a wide variety of applications, including growth and maintenance of CHO, hybridoma, and insect cells in culture; monoclonal antibody production by hybridomas; and viral expression in insect cells.

| Product                              | Catalog no. | Amount | Storage                        | Shelf Life* |
|--------------------------------------|-------------|--------|--------------------------------|-------------|
| Chemically Defined Lipid Concentrate | 11905-031   | 100 mL | 2°C to 8°C; Protect from light | 9 months    |

\* Shelf Life duration is determined from Date of Manufacture.

## Product Use

Caution: For manufacturing, processing, or repacking.

## Safety Information

Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

## Important Information

- Minimize exposure to air. CD Lipid Concentrate contains unsaturated fatty acids which may become oxidized on exposure to air. Once opened dispense aliquots of any unused CD Lipid Concentrate into vessels with minimal headspace or overlay with an inert gas.
- Chemically Defined Lipid Concentrate contains a surfactant and therefore may not be suited for growth of some adherent cell lines. Addition of Chemically Defined Lipid Concentrate to media containing a surfactant may result in cellular toxicity.
- Protect from freezing.

## Use

Chemically Defined Lipid Concentrate can be aseptically added directly to media before use. If an application requires that the media containing Chemically Defined Lipid Concentrate be re-filtered, it is important to use a low binding filter material (i.e., Millipore® or Durapore® membrane filters).










Chemically Defined Lipid Concentrate has been tested in a variety of cell lines grown in suspension culture at dilutions ranging from 1:100 to 1:1000 (see the following table). These dilutions are guidelines and dose response for this supplement needs be established for each new application.

Guidelines for Dilution of  
Chemically Defined Lipid Concentrate

| Cell Line                    | Recommended Dilution |
|------------------------------|----------------------|
| Sf9                          | 1:100                |
| CHO                          | 1:1000               |
| L243                         | 1:1000               |
| AE1                          | 1:250                |
| Other hybridomas             | 1:250 to 1:1000      |
| Other established cell lines | 1:100 to 1:1000      |

## Explanation of Symbols and Warnings

The symbols present on the product label are explained below:

|   |   |   |   |   |
|---|---|---|---|---|
|  |  |  |  |  |
| Temperature Limitation  | Manufacturer  | Batch code  | Use By:   | Catalog number  |
|  |  |  |  |   |
| Caution, consult accompanying documents   | Consult instructions for use  | Keep away from light  | Sterilized using aseptic processing techniques                                      |   |

## Limited Use Label License: Internal Research and Bioproduction Use

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product (a) to perform internal research for the sole benefit of the purchaser; and (b) to culture cells for the purpose of producing a product wherein the product will be used for any or all of the following: (i) internal research use by the purchaser; (ii) resale for internal research use by third parties; (iii) performance of research conducted by the purchaser on a fee for service or contract basis for or on behalf of third parties; (iv) resale for use as a human therapeutic agent or diagnostics product or component by third parties; (v) performance of manufacturing services conducted by the purchaser on a fee for service or contract basis for or on behalf of third parties.

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## Limited Product Warranty

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## References

- Spector, A.A., Mathur, S.N., Kaduce, T.L., and Hyman, B.T. Lipid Nutrition and Metabolism of Cultured Mammalian Cells. *Prog. Lipid Res.*, 19:155-186 (1981).
- Mittler, T. and Dadd, R.H. *Metabolic Aspects of Lipid Nutrition of Insect Cells*. Westwood Press, Inc. (1983).

For additional technical information such as Safety Data Sheets (SDS), Certificates of Analysis, visit [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support)  
For further assistance, email [techsupport@lifetech.com](mailto:techsupport@lifetech.com)

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