



LipiMAX™

LipiMAX™ is a highly purified lipid concentrate or lipoprotein solution. It is extracted from adult bovine serum of Australian origin and comprises a balanced profile of naturally occurring lipids, cholesterol, and essential fatty acids. **LipiMAX™** provides a purified source of key nutritional and in vitro environmental components, while significantly reducing the purification concerns arising from the use of whole animal sera.

Applications

LipiMAX™ is designed to be used as a broad spectrum nutrient supplement where serum-free or reduced serum conditions are desired. As a highly purified aqueous solution, typical supplementation is only 0.25% - 0.5% per liter of complete medium. Some cell lines may require media optimization via additional supplementation of components such as albumin, transferrin, insulin, and selenium. Specific applications include:

- Enhance propagation of mammalian cells
- Stimulate production of MAb's by hybridoma cells;
- Enhance production efficiencies of recombinant proteins;

Benefits

1. **RISK REDUCTION.** Australia is one of few countries in the world with the highest rating (lowest risk) for potential of BSE contamination as rated by the EU Scientific Steering Committee on the Geographical Risk of BSE. Fully traceable, **LipiMAX™** is the only lipoprotein solution that is both sourced from and manufactured in Australia.

2. **FILTERABILITY.** When used as a component in cell culture medium, some lipoprotein solutions may become cloudy or develop precipitates. This phenomenon may increase over time (particularly during extended periods of storage) and require special filtration steps prior to use in manufacturing. **LipiMAX™** does not precipitate and readily dissolves during medium formulation.

3. **LOW ENDOTOXIN.** Some lipoprotein solutions measure endotoxin relative to other components such as cholesterol content. For example, if the allowable upper limit for cholesterol is 11 g/L and the allowable upper limit for endotoxin is 6 EU/mg of cholesterol, the allowable upper limit for endotoxin would be 66 EU/ml. By comparison, **LipiMAX™** has a specified upper limit of 50 EU/ml with a typical value of < 10 EU/ml.

4. **MAXIMIZE YIELDS / REDUCE COSTS.** **LipiMAX™** can simplify and streamline the downstream processing and purification of recombinant proteins and monoclonal antibodies. Selborne's proprietary purification process results in a high performance cell culture medium supplement that can help optimize production yields while lowering overall manufacturing costs.

5. **LOT-TO-LOT CONSISTENCY.** Analytical data performed on numerous lots demonstrates a remarkable degree of batch consistency—a key factor for biomanufacturing processes.

Product Attributes

- Validated viral clearance from manufacturing processes
- Certificate of Suitability on file
- Stable product matrix (2 years at 2-8 °C)
- Approved for use in the production of human therapeutics in the U.S., Europe and Japan
- Available in standard (#ABL-04) and low protein (#ABL-03) formulations
- Available in PETG bottles or larger volume flex containers to suit your production needs

Product Quality Characteristics

ASSAY	SPECIFICATION	TYPICAL VALUE
Cholesterol	9.0 – 11.0 g/L	10.2 g/L
Sterility	No growth	No growth
Endotoxin	< 50 EU/mL	< 10 EU/mL
pH	7.0 – 8.4	8.0
Total Protein		
#ABL-03	13-18 mg/L	15.6 mg/L
#ABL-04	For Information Only	31.8 mg/L
Mycoplasma	Not detected	Not detected
Bovine IgG	Not detected	Not detected
Bovine Viruses (9CFR 113.46, 113.47, 113.53)	Not detected	Not detected

PRODUCT FOLIO	COUNTRY OF ORIGIN	UNIT SIZE (Packaging)	ORDERING PART #
LipiMAX™			
LipiMAX™ Bovine Lipoprotein Solution. Original version for general cell culture use. (approx. 30 g/L total protein)	Australian	100 mL	ABL01-003
	Australian	1000 mL	ABL01-005
LipiMAX™ Bovine Lipoprotein Solution. Low protein modification of original version. (approx. 15 g/L total protein)	Australian	100 mL	ABL02-003
	Australian	1000 mL	ABL02-005
LipiMAX™ Bovine Lipoprotein Solution. Low protein modification optimized for biopharmaceutical manufacturing use. (approx. 15 g/L total protein)	Australian	100 mL	ABL03-003
	Australian	1000 mL	ABL03-005
LipiMAX™ Bovine Lipoprotein Solution. Proprietary modification of original version optimized for biopharmaceutical manufacturing and cell culture use. (approx. 30 g/L total protein)	Australian	100 mL	ABL04-003
	Australian	1000 mL	ABL04-005

NOTE: Custom packaging and volumes available by request for all products. Product part numbers in gray print indicate this product or packaging size is typically made to order and may not be in stock. Please call for availability or scheduling times.

Contact your nearest Selborne office or sales representative for additional product information or to request a product sample.

Selborne LipiMAX™. No worries.

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NOTE: The Australia facility is a manufacturing site only. Product inquiries should be directed to either the U.S., UK, or Japan distributor offices.

SB Trading Co., Ltd. (Japan)

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NOTE: SB Trading Co., Ltd. is the sole distributor of Selborne products in Japan. Based in Tokyo, SB Trading has a long and successful history in the supply of materials to the Pharmaceutical and Biotechnology Industries.

