

AlbuMAX[®] I and AlbuMAX[®] II

(Lipid-Rich Bovine Serum Albumin, New Zealand Origin and Manufactured)

Description

AlbuMAX[®] I & II Lipid-Rich Bovine Serum Albumin (BSA) have been developed as convenient, effective means to reduce or replace the requirement for serum supplementation in cell culture media. Life Technologies[™] proprietary chromatographic separations process contributes a unique preservation of naturally occurring lipids associated with the purified albumin resulting in excellent growth promotion characteristics. AlbuMAX[®] I & II Lipid-Rich BSA should be considered as media supplements for applications in which an economical replacement of serum or other growth-supporting supplements is sought. AlbuMAX[®] I & II Lipid-Rich BSA supplemented at 0.5–2.5 mg/mL has been proven effective in growth promotion of anchorage dependent and independent cell lines commonly used for monoclonal antibody, virus, and recombinant protein production.

Product	Catalog no.	Amount	Storage
AlbuMAX [®] I*	11020-013	5 g	2°C to 8°C
	11020-021	25 g	
	11020-062	100 g	
	11020-070	500 g	
	11020-039	1 kg	
	11020-088	5 kg	
AlbuMAX [®] II**	11021-011	5 g	2°C to 8°C
	11021-029	25 g	
	11021-037	100 g	
	11021-045	1 kg	
	11021-086	5 kg	
AlbuMAX [®] II 20% Solution**	E003000PJ	500 mL	2°C to 8°C
	E003000PK	1 L	
	E003000PR	5 L	

* IgG content ≤0.1%.

** IgG content ≤1.0%.

Product use

Caution: For manufacturing, processing, or repacking.

Important information

- AlbuMAX[®] I Lipid-Rich BSA has undergone an additional purification step, reducing IgG levels ten-fold relative to AlbuMAX[®] II, for use in applications where IgG may interfere.
- AlbuMAX[®] I & II Lipid-Rich BSA contain naturally occurring free fatty acids and cholesterol; accordingly, additional supplementation of media with these and other growth promoting additives may not be necessary.
- AlbuMAX[®] I & II Lipid-Rich BSA have been demonstrated to result in superior growth performance when compared to Cohn Fraction V BSA under a variety of serum-free conditions.
- Albu MAX[®] I and II is available gamma irradiated where additional viral safety is desired. Contact Technical support at www.lifetechnologies.com/support or techsupport@lifetech.com for options.

Safety information

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

Use

- We recommend using 0.5–5.0 mg/mL effective final concentrations of AlbuMAX[®] I or II Lipid-Rich BSA in serum-free or serum-reduced growth media.
- The optimal concentration of AlbuMAX[®] I or II Lipid-Rich BSA will vary depending on cell line and basal medium components, and should be titrated for each system. Two to three passages may be required in some systems before maximal growth rates are achieved.
- Optimal performance will normally necessitate use of a fortified medium (e.g., Opti-MEM[®] I) containing insulin and transferrin, and trace elements. An attachment factor (e.g., vitronectin, fibronectin, or laminin) may also be required for serum-free, anchorage-dependent systems.

Solubilize AlbuMAX® Lipid-Rich BSA powder

Perform solubilization steps with all components at room temperature. We recommend preparing a concentrated stock solution of 10–20% AlbuMAX® I or II Lipid-Rich BSA (10–20 g/100 mL).

1. Add 80 mL of Water for Injection (WFI) or saline solution to a sterile mixing vessel of twice the final desired working volume of stock solution.
2. Add 20 g AlbuMAX® Lipid-Rich BSA powder slowly with stirring.
3. Mix slowly for 30–40 minutes at room temperature until powder is completely dissolved.
4. Bring the solution to a final working volume (100 mL in this example) with the chosen solvent and mix thoroughly.
5. Filter sterilize directly into an airtight, cell culture quality container.

Note: Sterile solutions of AlbuMAX® Lipid-Rich BSA are stable for up to 30 days when stored at 2°C to 8°C, tightly capped and protected from light.

Related products

Product	Catalog no.
Water for Injection (WFI) for Cell Culture	A12873
DPBS, with calcium and magnesium	14040
Vitronectin Natural Human	PHE0011
Fibronectin, Bovine Plasma	33010
Natural Mouse Laminin	23017
Opti-MEM® I Reduced Serum Medium (1X), liquid	31985
Transferrin, Porcine, Holo Form	PSB10045
Transferrin, Bovine, Holo Form	11107

Explanation of symbols and warnings

The symbols present on the product label are explained below:

		
Manufacturer	Catalog number	Batch code
		
Caution, consult accompanying documents	Consult instructions for use	Temperature Limitation

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.lifetechnologies.com/termsandconditions. If you have any questions, please contact Life Technologies at www.lifetechnologies.com/support.

Important licensing information

These products may be covered by one or more Limited Use Label Licenses. By use of these products, you accept the terms and conditions of all applicable Limited Use Label Licenses.

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

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