

HyQ[®] LipiMate[™] Product Information

No worries.

What is it?

HyQ[®] LipiMate[™] is a growth enhancement cell culture media supplement comprising a balanced profile of purified cholesterol and essential fatty acids. Derived from the lipid fraction of adult bovine serum, these naturally occurring lipids are presented in a water-soluble concentrate that simplifies media formulation processes and allows for increased metabolic efficiencies. Because it comes from Australia and HyClone, HyQ[®] LipiMate[™] offers a safe and true second source for a key manufacturing component.

How and where is it used?

HyQ[®] LipiMate[™] is designed to be used as a nutrient supplement in serum-free or reduced-serum media formulations for the propagation of a broad array of mammalian cells and for stimulating production of MAb's and recombinant proteins. While not a complete serum replacement, HyQ[®] LipiMate[™] supplies many of the nutritional requirements that may be lacking in serum-free media. Many cell lines as well as serum-free media formulations require optimization via additional supplementation with components such as albumin, insulin, transferrin, or selenium. When used in concert with other appropriately defined supplements, HyQ[®] LipiMate[™] offers an appealing and cost-effective method to optimize your cell culture system while reducing or eliminating your dependence on serum.

Cost and Time Savings?

The use of HyQ[®] LipiMate[™] in serum-free media formulations in lieu of serum-containing media offers numerous intrinsic advantages saving both time and money. Whereas serum is typically used at 5%–10% concentrations (50mls–100mls per liter of complete medium), HyQ[®] LipiMate[™] is typically used at concentrations of only 0.2%–0.5%

(2mls– 5mls per liter of complete medium). Even when combined with other recommended serum-free media supplements, this makes the cost of using HyQ[®] LipiMate[™] a fraction of the cost of using FBS from a production materials standpoint. When you take into account the additional time and processing savings that may be derived from using a more defined media instead of a serum-containing formulation, the potential is very appealing. Consider the following:

- Simplified downstream purification and potential for enhanced purification yields due to the absence of a superfluity of serum proteins;
- Greater lot-to-lot consistency compared to serum providing a reduction in the cost and time spent in testing and qualifying multiple lots of serum;
- Reduced storage space requirements (no freezer space required) because it is highly concentrated and stores at 2–8°C.

Performance Data

Research studies comparing HyQ[®] LipiMate[™] to competing substitutes highlight its performance and consistency. In Figures 1–4 (reverse side), three separate lots of HyQ[®] LipiMate[™] were compared with two other lipid concentrates using various cell lines including hybridomas, lymphoblasts, fibroblasts and epithelial cells. Care was taken to ensure that all conditions were equivalent with the exception of the lipoprotein variable in question. All conditions include basal media +1.5%–2% FBS + 0.3% lipoprotein solutions with no additional supplements. Observe that HyQ[®] LipiMate[™] not only performs as well or better than competitive products, but shows remarkable lot-to-lot consistency.



Ordering Information

To order or if you have additional questions, please contact your HyClone sales representative or call our home office at 1-800-HYCLONE (492-5663).

PRODUCT	PART NO.	VOLUME
HyQ [®] LipiMate [™]	SV30020.01	50ml
	SV30020.02	100ml
	SV30020.03	1000ml

Technical Specifications

HyQ[®] LipiMate™

Product Specifications and Typical Values

HyQ[®] LipiMate™ may be stored at 2–8°C. Specific product requirements and typical values are given below.

PRODUCT CHARACTERISTIC	SPECIFIED VALUE RANGE	TYPICAL VALUE
Cholesterol	9.0–11.0 g/L	10.2 g/L
Bovine IgG	None detected	None detected
Endotoxin	< 50 EU / ml	10 EU / ml
Total Protein	For info. only	24 g/L
Microbial Content	No Growth	No growth
pH	7.0–8.4	7.9
Virus (9 CFR 113.53)	Not detected	Not detected
Mycoplasma	Not detected	Not detected

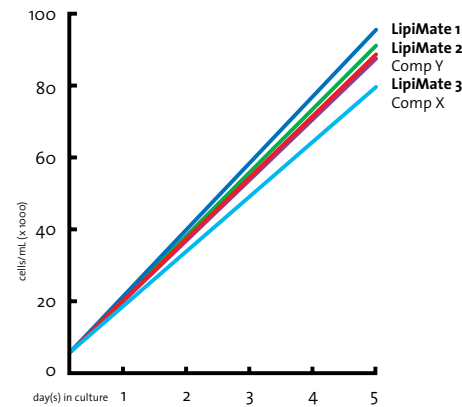


Figure 1 Fibroblast cells (HyQ LipiMate in 3T3)

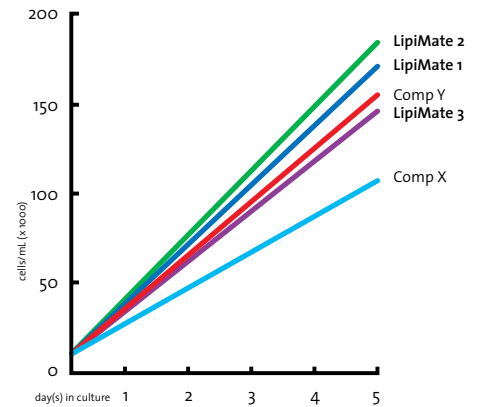


Figure 2 Hybridoma cells (HyQ LipiMate in L227)

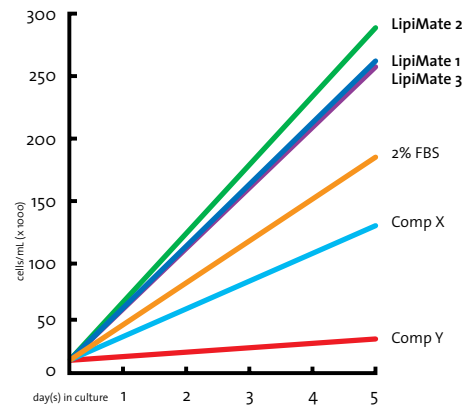


Figure 3 Lymphoblast cells (HyQ LipiMate in P3X63Ag8.653)

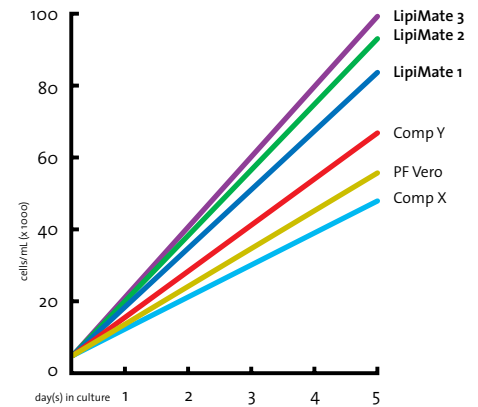


Figure 4 Epithelial cells (HyQ LipiMate in Vero)

HyQ[®] LipiMate™
No worries.

bioprocess containers • media • buffers • reagents • serum-free media • FBS alternative • sera



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