

Thermo Scientific HyClone Cell Boost 5 is a supplement designed to provide nutrients such as lipids, amino acids, vitamins and growth factors, as part of fed-batch cell culture strategies. Cell Boost 5 has been tested in a variety of cell lines including CHO, Hybridoma, NS0 and HEK293.

## Thermo Scientific HyClone Cell Boost 5 (CN-F)

### Features

- Chemically-Defined
- Animal Derived Component Free
- Protein-Free
- Does not contain L-glutamine or Pluronic® F68
- Manufactured under cGMP

### Fed-Batch Supplementation

This formulation was designed for use in many feed formats. Two suggested preparations/applications have been outlined.

### Suggested Preparation

1. To 900 mL of cell culture grade water at 20-25°C, add 35g of Cell Boost 5 Powder
2. Stir for 20-30 minutes
3. Adjust pH to 7.0-7.4 if desired
4. Bring volume to 1000 mL
5. Sterile filter with 0.2 µm filter

*Note:* Due to unique lipid components in Cell Boost 5 the liquid preparation temperature must be maintained higher than 20°C.

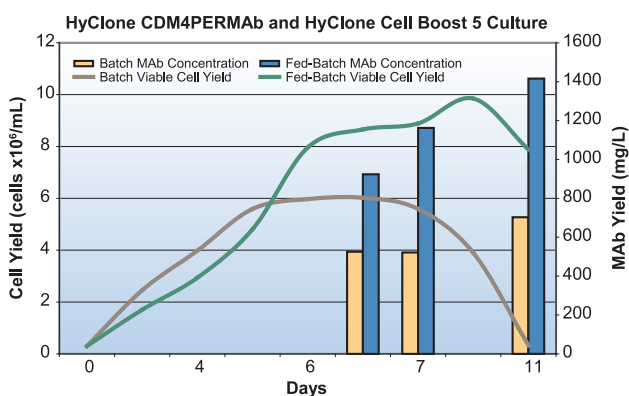
Cell Boost 5 can be formulated from 30-60 g/L. It has specific storage, temperature and pH requirements when formulated at higher concentrations.



### Suggested Application

Recommended supplementation range is between 20-200 mL/L during mid-to-late growth phase. It is anticipated that this will be day 3 to 4 of the culture.

It is suggested that L-glutamine be monitored separately in those cultures where it is present in the culture medium, and supplemented as needed.



### Figure

Production of CD46 antibody in PER.C6® (CruCell NV) cells cultured in HyClone CDM4PERMAb™. Fed-batch culture employed daily feedings of HyClone Cell Boost 5 (CN-F).

## Ordering Information

The six Cell Boost supplements have been designed to provide such nutrients as amino acids, vitamins, lipids, cholesterol, glucose and/or growth factors in novel combinations for multiple mammalian cell types. Thermo Scientific HyClone Cell Boost supplements are chemically-defined and contain no animal derived components. In addition to the Cell Boost line, we offer concentrated liquid supplements designed to provide lipids and cholesterol to such cell lines as NS0, as well as specific nutrients for those cells using the glutamine synthetase (GS) Gene Expression System.

### HyClone Cell Boost 5

Name	Part Number/Unit Size	Description
HyClone Cell Boost 5™	SH30865.01 100 g	HyClone Cell Boost 5 is a supplement designed to provide nutrients such as lipids, amino acids, vitamins and growth factors. HyClone Cell Boost 5 has been tested in a variety of cell lines including, CHO, Hybridoma, NS0 and HEK 293.
	SH30865.02 500 g	
	SH30865.03 1000 g	
	SH30865.04 5000 g	

#### Related Products

Product Name	Part Number	Unit Size	Amino Acids	Vitamins	Glucose	Trace Elements	Growth Factors	Lipids	Cholesterol
HyClone Cell Boost™ Kit	SH30890	6 x 100 g							
		Cell Boost 1	✓	✓	✓				
		Cell Boost 2	✓	✓	✓				
		Cell Boost 3	✓	✓	✓	✓			
		Cell Boost 4	✓	✓	✓	✓	✓	✓	
		Cell Boost 5	✓	✓	✓	✓	✓	✓	✓
Cell Boost 6	✓	✓	✓	✓	✓	✓	✓	✓	
HyClone LS250™	SH30555								
HyClone LS1000™	SH30554								
HyClone GS-Max™	SH30586								
HyClone CDM4CHO™	SH30557 SH30558 SH30556	4 mM L-Glutamine (Liquid)							
		No L-Glutamine (Liquid)							
		No L-Glutamine (Powder)							
HyClone CDM4NS0™	SH30579 SH30578	No L-Glutamine (Liquid)							
		No L-Glutamine (Powder)							
HyClone CDM4MAb™	SH30801 SH30802 SH30800	6 mM L-Glutamine (Liquid)							
		No L-Glutamine (Liquid)							
		No L-Glutamine (Powder)							
HyClone CDM4PERMAb™	SH30871 SH30872	No L-Glutamine (Liquid)							
		No L-Glutamine (Powder)							
HyClone CDM4HEK293™	SH30858 SH30859	No L-Glutamine (Liquid)							
		No L-Glutamine (Powder)							



**HyClone - Media•BPC•Sera**  
925 West 1800 South  
Logan, UT  
84321

**In Americas/Asia**  
435-792-8000  
435-792-8001 fax

**In Europe**  
+32 53 85 71 80  
+32 53 85 74 31 fax

[www.thermo.com/hyclone](http://www.thermo.com/hyclone)

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