

## **EX-CELL<sup>TM</sup> Serum-Free Media for Hybridoma Cells** and Monoclonal Antibody Production

#### EX-CELL<sup>™</sup> NS0

### Serum-Free Medium for NS0 Cells,

EX-CELL<sup>™</sup> 610-HSF is a low-protein (11 mg/L) serum-free **Chemically Defined** medium. Originally developed to support the growth of EX-CELL<sup>™</sup> NS0 is an animal-component free, protein-free, hybrid cells in culture, it has been shown to support a wide chemically defined, serum-free medium developed for the range of cells including lymphoid and epithelial cells and B long-term growth of NSO-related cells in suspension culture. cell hybridomas of murine, rat and human origin. The NSO cells are clonal derivatives of the parent NS1 cell EX-CELL<sup>™</sup> 610-HSF has been used in stationary culture systems line and are capable of growth in suspension culture. NSO and in large-scale bioreactors. In both types of culture, the hybridoma suspension cultures can be subcultured directly production of cellular products, particularly monoclonal into EX-CELL<sup>™</sup> NS0 from serum-supplemented or serum-free antibodies, has been shown to equal or exceed levels seen media. Suspension cultures in EX-CELL<sup>™</sup> NS0 have been carried when the same cells are cultured in the presence of Fetal for more than 50 passages with no loss of growth or viability. Bovine Serum (FBS).

#### EX-CELL<sup>™</sup> Sp2/0

### Serum-Free Medium for Sp2/0 Cells,

**Chemically Defined** EX-CELL<sup>™</sup> 620-HSF is a low-protein (approximately 11 mg/L) serum-free medium which has been specifically developed EX-CELL<sup>™</sup> Sp2/0 is an animal-component free, protein-free, for the long-term growth of hybridoma and related cells chemically defined, serum-free medium developed for the capable of expressing monoclonal antibodies and other protein long-term growth of Sp2/0-related cells in suspension products. The following hybridoma, lymphoma and myeloma culture. The Sp2/0 cells are capable of growth in suspension cell lines have demonstrated sustained long-term, serum-free culture. Sp2/0 hybridoma suspension cultures can be growth (> 15 passages) in EX-CELL<sup>™</sup> 620-HSF: Sp2/0 Ag14, subcultured directly into EX-CELL<sup>™</sup> Sp2/0 from serum-L243, VD-10, Hut 78, K562. Additionally, transformed Chinese supplemented or serum-free media with little or no Hamster Ovary (CHO-K1) cells have demonstrated excellent adaptation. Suspension cultures in EX-CELL<sup>™</sup> Sp2/0 have growth and productivity when grown in this medium. been carried for more than 25 passages with no loss of growth or viability.

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## **Technical Bulletin**

### EX-CELL<sup>™</sup> 610-HSF

#### Serum-Free Medium for Hybridoma Cells

### EX-CELL<sup>™</sup> 620-HSF

#### Serum-Free Medium for Hybridoma Cells

Refer to product comparison chart inside publication for more information about EX-CELL<sup>™</sup> NS0, EX-CELL<sup>™</sup> Sp2/0, EX-CELL<sup>™</sup> 610-HSF and EX-CELL<sup>™</sup> 620-HSF.

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## **Product comparison chart:** EX-CELL<sup>™</sup> NSO, EX-CELL<sup>™</sup> Sp2/0, EX-CELL<sup>™</sup> 610-HSF and EX-CELL<sup>™</sup> 620-HSF

	EX-CELL™ NS0		EX-CELL™ Sp2/0		EX-CELL™ 610-HSF		EX-CELL <sup>™</sup> 620-HSF	
Catalog Number	14650	24651	14660	24660	14610	24610	14621	24621
Format	Liquid	Dry Powder	Liquid	Dry Powder	Liquid	Dry Powder	Liquid	Dry Powder
Standard Sizes	500 mL	1 L	500 mL	1 L	500 mL	1 L	500 mL	1 L
	1000 mL	5 L	1000 mL	5 L	1000 mL	5 L	1000 mL	5 L
		10 L		10 L		10 L		10 L
		50 L		50 L		50 L		50 L
		-	_	_		100 L		100 L
Applicable Systems	Suspension		Suspension		Stationary/Suspension		Stationary/Suspension	
Protein Level	N/A		N/A		11 mg/L		11 mg/L	
Protein Source*	N/A		N/A		Animal*		Animal*	
Hydrolysate Source	N/A		N/A		N/A		Animal/Plant*	
L-glutamine	No,		No,		Yes,		No,	
	Recommend adding 8 mM		Recommend adding 8 mM		0.333 g/L		Recommend adding 4 mM	
HEPES	No		7.5 mM		7.5 mM		7.5 mM	
Pluronic <sup>®</sup> F-68	0.1%		0.1%		No		0.1%	
Glucose	5.6 g/L		4.0 g/L		3.45 g/L		3.45 g/L	
Hypoxanthine & thymidine	Yes		Yes		Yes		No	
Sodium bicarbonate	Yes,	No, add	Yes,	No, add	Yes,	No, add	Yes,	No, add
	2.14 g/L	2.14 g/L	1.05 g/L	1.05 g/L	1.60 g/L	1.60 g/L	1.6 g/L	1.6 g/L

\*All protein products of bovine origin are collected from USDA approved sources.

The formulations for all EX-CELL<sup>™</sup> Serum-Free Media are proprietary to SAFC Biosciences. For more information about this subject or other SAFC Biosciences' products and services, please call our Technical Services department.

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