

Insect Medium

Insect-XPRESS™ Protein-free Insect Cell Medium

- Versatile medium for shaker flask or stationary culture of SF9, SF21, High Five™ and Drosophila cells

	General Use	Non-animal origin	Protein-free	Chemically Defined	Optimized for
Insect-XPRESS™ Medium	■		■		SF9, SF21, High Five™ and Drosophila cells

Ordering Information

Product	Cat. No.	Size
Insect-XPRESS™ Medium	12-730F	500 ml
Insect-XPRESS™ Medium	12-7300	1 L

Hybridoma Media

UltraDOMA™ Chemically Defined, Serum-free Hybridoma Medium

UltraDOMA™-PF Chemically Defined, Protein-free Hybridoma Medium

- The original hybridoma media for murine, human, and chimeric origin cells

ProDoma™ Serum-free Hybridoma Medium

- Non-animal, protein-free media for your hybridoma needs
- Scalable from small flasks to large-scale bioreactors

	General Use	Non-animal origin	Protein-free	Chemically Defined	Optimized for
UltraDOMA™ CD Medium	■			■	Murine, human, and chimeric cell lines
UltraDOMA™-PF CD Medium	■	■	■	■	Murine, human, and chimeric cell lines
ProDoma™ 1 CD Medium		■	■	■	Murine, rat, human, and chimeric cell lines
ProDoma™ 2 Medium		■	■		Murine, rat, human, and chimeric cell lines
ProDoma™ 3 Medium		■	■		Murine, rat, human, and chimeric cell lines

Ordering Information

Product	Cat. No.	Size
UltraDOMA™ CD Medium	12-723B	500 ml
UltraDOMA™-PF CD Medium	12-727F	500 ml
ProDoma™ 1 CD Medium	BE02-0290	1 L
ProDoma™ 2 Medium	BE02-0310	1 L
ProDoma™ 3 Medium	BE02-0320	1 L

Cyropreservation Medium

ProFreeze™-CDM [2X]

- Non-animal, protein-free freezing medium
- Chemically defined
- Formulated for cryopreserving all cell types
- Maintains high cell viability upon recovery from frozen storage
- Requires 15% DMSO at 2X

Ordering Information

Product	Cat. No.	Size
ProFreeze™ -CDM [2X]	12-769E	100 ml

BioWhittaker® Specialty Media

Maximize Your Cell Growth and Productivity



- All products are manufactured using water for injection (WFI) quality water
- Listed with the FDA in a product Master File
- Manufactured in accordance with cGMP regulation

Contact Information

North America

Customer Service: 800-638-8174
 Technical Service: 800-521-0390
 E-mail: biotechserv@lonza.com
 Online Ordering: www.lonza.com

Europe

Customer Service: 32 (0) 87 321 611
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 or techsup.uk@lonza.com
 Online Ordering: www.lonza.com

International

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 Fax: 301-845-8291
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High Five is a trademark of Boyce Thompson Institute for Plant Research Inc.

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BioWhittaker® Specialty Media

Maximize Your Cell Growth and Productivity

If your work leads to downstream therapeutic, diagnostic, or biopharmaceutical applications, serum-free media is the best choice for initiating your research studies.

BioWhittaker® specialty media delivers outstanding performance, a broad selection, and consistent results, whether you need protein-free, non-animal origin (NAO) or chemically defined media. Our ISO 9000 and cGMP systems are recognized industry wide.

BioWhittaker® serum-free media delivers unique benefits:

- Consistent results
- Elimination of FBS lot qualification
- Elimination of FBS-borne mycoplasma and virus contamination
- Simplified downstream purification
- Reduced regulatory burdens
- Maximal yields

Hematopoietic Media

X-VIVO™ Chemically Defined, Serum-free Hematopoietic Cell Media

- Superior media for most hematopoietic cell types including dendritic cells, lymphocytes, monocytes, macrophages, and granulocytes
- Highly cited in scientific literature (see www.lonza.com)

	General Use	Non-animal origin	Protein-free	Chemically Defined	Optimized for
X-VIVO™ 10 Medium	■	■	■	■	PBL, LAK, monocytes, macrophages, stem cells
X-VIVO™ 15 Medium	■	■	■	■	PBL, NK, TIL, monocytes, macrophages, stem cells, dendritic cells
X-VIVO™ 20 Medium	■	■	■	■	PBL, LAK, TIL, monocytes, macrophages, stem cells, dendritic cells

Ordering Information

Product	Cat. No.	Size
X-VIVO™ 10 with L-glutamine, gentamicin and phenol red	04-3800	1 L
X-VIVO™ 10 with L-glutamine, without gentamicin or phenol red	04-7430	1 L
X-VIVO™ 15 with L-glutamine, gentamicin and phenol red	04-4180	1 L
X-VIVO™ 15 with L-glutamine, without gentamicin or phenol red	04-7440	1 L
X-VIVO™ 20 with L-glutamine, gentamicin and phenol red	04-4480	1 L

PER.C6® Medium

ProPer™ 1 Chemically-Defined, Serum-free Medium

- Optimized for human embryonic retinoblast PER.C6® (and related) cells
- Recombinant protein and virus production

	General Use	Non-animal origin	Protein-free	Chemically Defined	Optimized for
ProPer™ 1 CD Medium	■	■	■	■	PER.C6® (and related) cells in suspension

Ordering Information

Product	Cat. No.	Size
ProPer™ 1 CD Medium	BE02-0280	1 L

- Indicates the products are listed with the FDA in a product Master File
- Indicates the products are manufactured in accordance with cGMP regulations

BioWhittaker® Specialty Media

CHO Media

PowerCHO™ Chemically Defined, Serum-free CHO Media

- New chemically defined PowerCHO™ Media bring new levels of cell proliferation and protein production to chemically defined media
- Maintain high viability (>90%) at high cell densities

ProCHO™ Protein-free CHO Media

- Multiple formulas to optimize your protein-free applications including adherent and suspension cells, with high proliferation rates, and high protein yield
- Directly convert cultures from adherent with serum to suspension without serum

UltraCHO™ Serum-free CHO Medium

- The original medium for serum-free CHO use with suspension or adherent cells

	General Use	Non-animal origin	Protein-free	Chemically Defined	Optimized for
PowerCHO™ 1, 2, 3 CD Media	■	■	■	■	Suspension CHO
ProCHO™ 4, 5 Media	■	■	■	■	Suspension CHO
ProCHO™ AT Medium	■	■	■	■	Adherent CHO
UltraCHO™ Medium	■	■	■	■	Adherent & suspension CHO

Ordering Information

Product	Cat. No.	Size
PowerCHO™ 1 CD Medium	12-7700	1 L
PowerCHO™ 2 CD Medium	12-7710	1 L
PowerCHO™ 3 CD Medium	12-7720	1 L
ProCHO™ 4 Medium	12-0290	1 L
ProCHO™ 5 Medium	12-7660	1 L
ProCHO™ AT Medium	BE02-0160	1 L
UltraCHO™ Medium	12-7240	1 L

NSO Media

ProNSO™ 1 Chemically Defined, Protein-free Medium

ProNSO™ 2 Chemically Defined, Protein-free Medium

ProNSO™ Lipid Chemically Defined Supplement

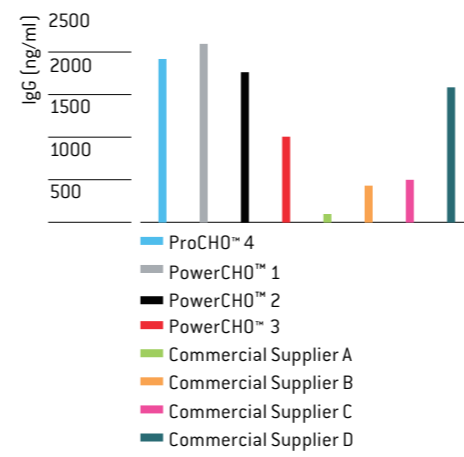
- Two distinct formulas to support a broad range of nutritional needs
- Titering the optional lipid supplement with cholesterol allows further performance optimization

	General Use	Non-animal origin	Protein-free	Chemically Defined	Optimized for
ProNSO™ 1 CD Medium	■	■	■	■	NSO cells in suspension
ProNSO™ 2 CD Medium	■	■	■	■	NSO cells in suspension
ProNSO™ Lipid CD Supplement	■	■	■	■	NSO cells in suspension

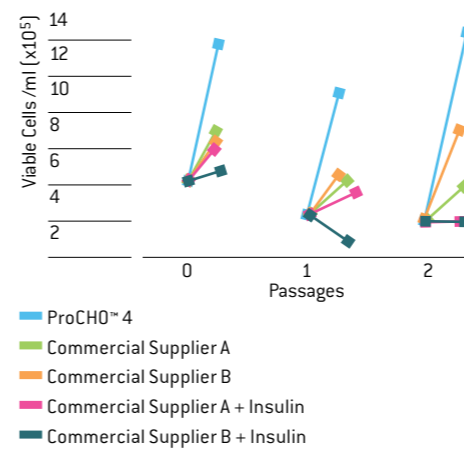
Ordering Information

Product	Cat. No.	Size
ProNSO™ 1 CD Medium	12-7730	1 L
ProNSO™ 2 CD Medium	12-7740	1 L
ProNSO™ Lipid CD Supplement	12-775J	5 ml

PowerCHO™ and ProCHO™ IgG Production



ProCHO™ 4 Supports Concurrent Transition to Serum-free Medium



CHO-K1 cells grown adherently in T-flasks using DMEM/F12 + 10% FBS were subcultured directly into 500 ml spinner flasks containing 200 ml of the respective medium.

BioWhittaker® Specialty Media

General Purpose Media

UltraCULTURE™ Serum-free Medium

- Delivers excellent growth and expansion of a broad range of adherent and suspension cells
- Simplify your media needs, no FBS needed

PC-1™ Chemically Defined, Serum-free Medium

- Superior media for primary adherent cells

HL-1™ Chemically Defined, Serum-free Medium

- Unique media for hybridoma and lymphocytic cells

	General Use	Non-animal origin	Protein-free	Chemically Defined	Optimized for
UltraCULTURE™ Medium	■	■	■	■	Most cell types
PC-1™ CD Medium	■	■	■	■	Adherent primary cells & cell lines
HL-1™ CD Medium	■	■	■	■	Hybridomas & many adherent cell lines

Ordering Information

Product	Cat. No.	Size
UltraCULTURE™ Medium	12-725F	500 ml
PC-1™ CD Medium	77232	2 X 500 ml
HL-1™ CD Medium	77201	2 X 500 ml

Renal Media

Pro293™ Chemically Defined Media

- Formulas for both suspension and adherent culture

ProVero1™ Medium

- Supports Vero and MDCK in viral vaccine applications

UltraMDCK™ Chemically Defined Medium

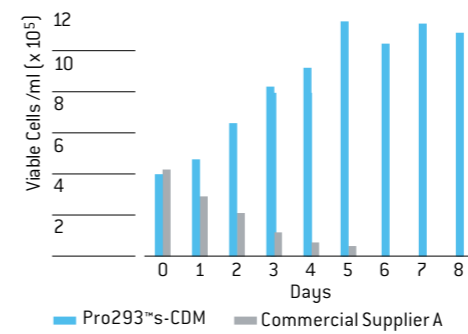
- Supports MDCK in viral vaccine applications at both high and low densities

	General Use	Non-animal origin	Protein-free	Chemically Defined	Optimized for
Pro293™s CD Medium	■	■	■	■	HEK 293 suspension
Pro293™a CD Medium	■	■	■	■	HEK 293 adherent
ProVero™ 1 Medium	■	■	■	■	Vero, MDCK
UltraMDCK™ CD Medium	■	■	■	■	MDCK, Vero

Ordering Information

Product	Cat. No.	Size
Pro293™s CD Medium	12-7650	1 L
Pro293™a CD Medium	12-7640	1 L
ProVero™ 1 Medium	BE02-0300	1 L
UltraMDCK™ CD Medium	12-7490	1 L

Pro293™s Easy Adaptation to Suspension Culture



Pro293™a Supports Adherent High-Density Cell Growth

