

BioWhittaker™ Specialty Media

Maximize Your Cell Growth and Productivity



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

BioWhittaker™ Specialty Media deliver 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 ISO 13485 systems are recognized industry wide.

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
- The formulation for UltraCULTURE™ Media has been submitted to the FDA as a Product Master File

BioWhittaker™ Serum-free Media deliver 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
- Produced according to cGMP

PC-1™ Chemically Defined, Serum-free Medium

- Superior medium for primary adherent cells

HL-1™ Chemically Defined, Serum-free Medium

- Unique medium 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 and cell lines
HL-1™ CD Medium	–	–	–	■	Hybridomas and many adherent cell lines

Ordering Information

Cat. No US	Cat. No EU	Product	Size
BP12-725F	BEBP12-725F	UltraCULTURE™ Medium	500 mL
BP77232	BP77232	PC-1™ CD Medium	2 X 500 mL
BP77201	BP77201	HL-1™ CD Medium	2 X 500 mL

Mesenchymal Stem Cell Medium

MSCGM™, Serum-free MSC Growth Medium

- Optimized for multiple passage expansion of all types of hMSCs
- Cells can be directly transitioned from serum-containing medium with little to no adaptation time
- No need for attachment matrix to plate cells
- Supports multi-lineage differentiation

Ordering Information

Cat. No.	Product	Size
190632	TheraPEAK™ MSCGM™ Mesenchymal Stem Cell – Growth Medium BulletKit™	Kit
190620	TheraPEAK™ MSCBM™ Mesenchymal Stem Cell – Basal Medium	500 mL
192125	TheraPEAK™ MSCGM™ Mesenchymal Stem Cell – Growth Medium SingleQuots™ Kit	5 mL

Cryopreservation Medium

ProFreeze™ Chemically Defined Medium (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

Cat. No US	Cat.No EU	Product	Size
BP12-769E	BP12-769E	ProFreeze™ Chemically Defined Medium (2X)	100 mL

Trypsinisation

TrypZean™ Trypsin/EDTA (10x)

- Non-animal origin
- Recombinant bovine trypsin expressed in corn

Ordering information


Cat. No US	Cat. No EU	Product	Size
BE02-034E	BE02-034E	TrypZean™ Trypsin/EDTA (10x) research use only (RUO)	100 mL

Hematopoietic Media

X-VIVO™ Xeno-free, Serum-free Hematopoietic Cell Media

- Superior media for most hematopoietic cell types including dendritic cells, lymphocytes, monocytes, macrophages, and granulocytes
- Some formulations include recombinant transferrin to meet the highest regulatory requirements

- All current TheraPEAK™ X-VIVO™ media products are manufactured under current GMPs and are listed with the FDA in a Product Master File.

 Highly cited in scientific literature

	General use	Non-animal origin	Protein-free	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

Cat. No US	Cat. No EU	Product	Size
04-380Q	BE 04-380Q	X-VIVO™ 10 Medium With L-glutamine, Gentamicin and Phenol Red, With Human Transferrin	1 L
BP04-743Q	BEBP04-743Q	TheraPEAK™ X-VIVO™ 10 Medium With L-glutamine, Without Gentamicin or Phenol Red, With Human Transferrin	1 L
BEBP02-055Q	BEBP02-055Q	TheraPEAK™ X-VIVO™ 10 Medium With L-glutamine, Without Gentamicin or Phenol Red, With Recombinant Transferrin	1 L
	BE02-060F*	X-VIVO™ 15 Medium With L-glutamine, Gentamicin and Phenol Red, With Human Transferrin	500 mL
04-418Q	BE02-060Q	X-VIVO™ 15 Medium With L-glutamine, Gentamicin and Phenol Red, With Human Transferrin	1 L
BE02-053Q	BE02-053Q	X-VIVO™ 15 Medium With L-glutamine, Gentamicin and Phenol Red, With Recombinant Transferrin	1 L
BP04-744Q	BEBP02-061Q	TheraPEAK™ X-VIVO™ 15 Medium With L-glutamine, Without Gentamicin or Phenol Red, With Human Transferrin	1 L
08-879H	BE08-879H	TheraPEAK X-VIVO™ 15 Medium with L-Glutamine, without Gentamicin and Phenol Red, 5L bag	5 L
BEBP02-054Q	BEBP02-054Q	TheraPEAK™ X-VIVO™ 15 Medium With L-glutamine, Without Gentamicin or Phenol Red, With Recombinant Transferrin	1 L
04-448Q	BE04-448Q	X-VIVO™ 20 Chemically Defined, Serum-free Hematopoietic Cell Medium, With L-glutamine, Gentamicin and Phenol Red	1 L

* Europe only

CHO Media

PowerCHO™ Chemically Defined, Serum-free CHO Media

- 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

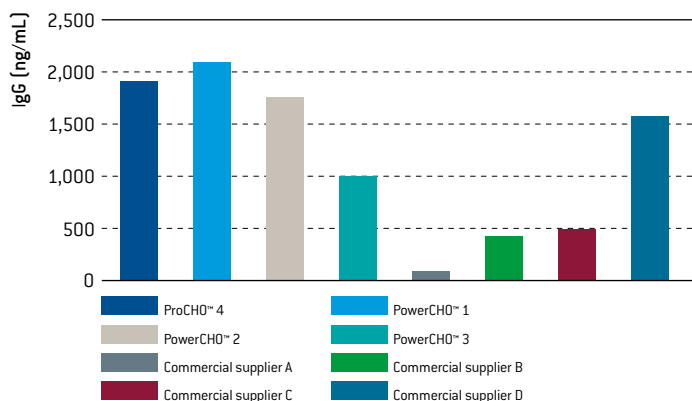
ProCHO™ Protein-free CHO Media

- 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

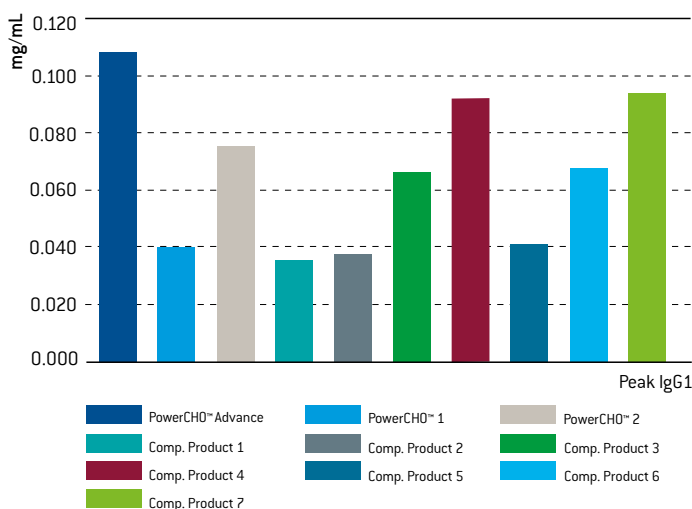
PowerCHO™ Advance Medium

- Chemically defined, no raw materials of animal origin, serum-free and manufactured to regulatory standards
- Designed for growing and feeding CHO cells in serum-free conditions
- Allow for easier filtration while maintaining cell growth and viability
- Provides protein titers equivalent or better compared to competitors

PowerCHO™ and ProCHO™ IgG Production



PowerCHO™ Advance Productivity Compared to Competitive Media



	General use	Non-animal origin	Protein-free	Chemically defined	Optimized for
PowerCHO™ 1, 2, CD Media	–	■	■	■	Suspension CHO
ProCHO™ 4, 5 Media	–	■	■	–	Suspension CHO
PowerCHO™ Advance Medium	–	■	■	■	Suspension CHO

Ordering information

Cat. No US	Cat.No EU	Product	Size
BP12-770Q	BP12-770Q	PowerCHO™ 1 Chemically Defined Medium	1 L
BP12-771Q	BELN12-771Q	PowerCHO™ 2 Chemically Defined Medium	1 L
12-771P10	BE12-771P10	PowerCHO™ 2 Chemically Defined Medium	10 L
12-771P20	BE12-771P20	PowerCHO™ 2 Chemically Defined Medium	20 L
BEBP12-029Q	BEBP12-029Q	ProCHO™ 4 Medium	1 L
BP04-919Q	BP04-919Q	ProCHO™ 4 Medium, without Phenol Red	1 L
BP12-766Q	BELN12-766Q	ProCHO™ 5 Medium	1 L
BE12-766P10	BE12-766P10	ProCHO™ 5 Medium	10 L
BE12-766P20	BE12-766P20	ProCHO™ 5 Medium	20 L
BE12-927Q	BE12-927Q	PowerCHO™ Advance Medium	1 L
Q2-044Q	BE02-044Q	PowerFeed A	1 L
BE02-052Q	BE02-052Q	PowerFeed A with lipids	1 L
BE02-056Q	BE02-056Q	CHO Xtreme™ Feed, Chemically Defined	1 L
BEBP17-855E	BEBP17-855E	ProHT™ Supplement 100x	100 mL

ProCHO™, PowerCHO™ Media and their Feeds are also available in powder format, contact Lonza for information.

Renal Media

Pro293™ Chemically Defined Media

- Formulas for both suspension and adherent culture

ProVero™ 1 Medium

- Supports Vero and MDCK in viral vaccine applications

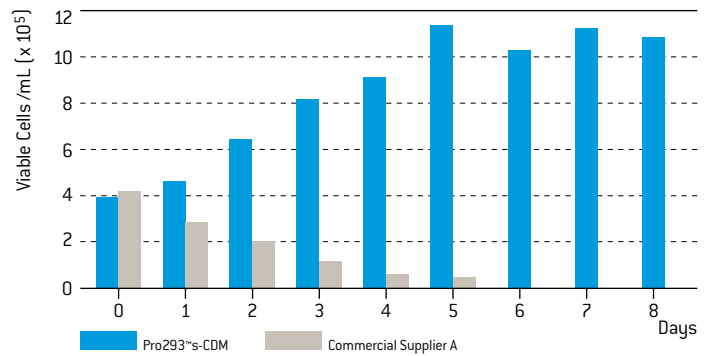
UltraMDCK™ Chemically Defined Medium

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

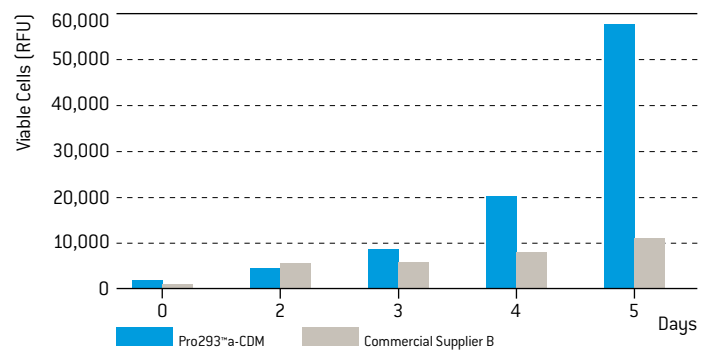
ProMDCK™ Medium

- Serum-free medium that supports the expansion and virus infection of MDCK cells in planar culture and on microcarriers

Pro293™s Easy Adaptation to Suspension Culture



Pro293™a Supports Adherent High-density Cell Growth



	General use	Non-animal origin	Protein-free	Chemically defined	Optimized for
Pro293™s Chemically Defined Medium	–	■	■	■	HEK 293 suspension
Pro293™a Chemically Defined Medium	–	■	■	■	HEK 293 adherent
ProVero™ 1 Medium	–	■	■	–	Vero, MDCK
ProMDCK™ Medium	–	■	■	–	MDCK in 2D and 3D
UltraMDCK™ Chemically Defined Medium	■	–	–	■	MDCK, Vero

Ordering information

Cat. No US	Cat. No EU	Product	Size
BP12-765Q	BEBP02-025Q	Pro293™s Chemically Defined Medium	1 L
BEBP12-764Q	BEBP12-764Q	Pro293™a Chemically Defined Medium	1 L
BEBP02-030Q	BEBP02-030Q	ProVero™ 1 Medium	1 L
BE12-924Q	BE12-924Q	ProMDCK™ 2D Medium	1 L
BE12-925Q	BE12-925Q	ProMDCK™ 3D Medium	1 L
BEBP12-749Q	BEBP12-749Q	UltraMDCK™ Chemically Defined Medium	1 L

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

Cat. No US	Cat. No EU	Product	Size
BP12-730Q	BELN12-730Q	Insect-XPRESS™ Medium	1 L
BEBP12-730P10	BEBP12-730P10	Insect-XPRESS™ Medium	10 L

Hybridoma Media

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

- Based on the original hybridoma media for murine, human, and chimeric origin cells in a completely defined medium with no peptides or tissue extracts

ProDoma™ Serum-free Hybridoma Medium

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

	General use	Non-animal origin	Protein-free	Chemically defined	Optimized for
UltraDOMA-PF™ Chemically Defined Medium	■	■	■	■	Murine, human, and chimeric cell lines
ProDoma™ 3 Chemically Defined Medium	–	■	■	–	Murine, rat, human, and chimeric cell lines

Ordering information

Cat. No US	Cat. No EU	Product	Size
BP12-727F	BP12-727F	UltraDOMA-PF™ Chemically Defined Medium	500 mL
BEBP02-032Q	BEBP02-032Q	ProDoma™ 3 Chemically Defined Medium	1 L

NSO Medium

ProNSO™ Chemically Defined, Protein-free Medium

- Designed for cultivation of NSO myeloma cells
- Maximise protein production by titration of ProNSO™ Lipid Chemically Defined Supplement

Ordering information

Cat. No US	Cat. No EU	Product	Size
BP12-773Q	BP12-773Q	ProNSO™ 1 Protein-free Medium, Chemically Defined	1 L
BP12-775J	BP12-775J	ProNSO™ Lipid Supplement - Chemically Defined	5 mL

Contact Information

North America

Customer Service: +1 800 638 8174 (toll free)
Fax: +1 301 845 8338
order.us@lonza.com
Scientific Support: +1 800 521 0390 (toll free)
scientific.support@lonza.com

Europe

Customer Service: +32 87 321 611
order.europe@lonza.com
Scientific Support: +32 87 321 611
scientific.support.eu@lonza.com

International

Contact your local Lonza distributor
Customer Service: +1 301 898 7025
scientific.support@lonza.com

International Offices

Australia	+61 3 9550 0883
Belgium	+32 87 321 611
Brazil	+55 11 2069 8800
France	0800 91 19 81 (toll free)
Germany	0800 182 52 87 (toll free)
India	+91 22 4342 4000
Japan	+81 3 6264 0660
Luxemburg	+32 87 321 611
Singapore	+65 6521 4379
The Netherlands	0800 022 4525 (toll free)
United Kingdom	0808 234 97 88 (toll free)

Lonza Cologne GmbH – 50829 Cologne Germany

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