

UltraCULTURE™ Serum-free Medium

Instructions for use

Contents:

Section	Description	Page
I	Introduction	1
II	Instructions for use	1
III	Cells cultivated with UltraCULTURE™ Medium	1
IV	Storage	2
V	Ordering information	2

I. Introduction

UltraCULTURE™ Medium is a serum-free medium designed for the cultivation of a wide variety of mammalian cell types. The medium consists of a DMEM:F-12 base, which is supplemented with recombinant human insulin, bovine transferrin and a purified mixture of bovine serum proteins including albumin. The total protein concentration of UltraCULTURE™ Medium is approximately 3 mg/mL. UltraCULTURE™ Medium does not contain L-glutamine.

UltraCULTURE™ Medium has been used to grow a variety of cells of primary origin and established cell lines. The medium may be used to support the fusion of cells during the formation of hybridomas. UltraCULTURE™ Medium has been used to grow cells of lymphoid origin including monocyte and macrophage cell lines. Epithelial and fibroblastic cells have been cultivated in UltraCULTURE™ Medium and endothelial cells have been cultivated under reduced serum concentration (5% fetal bovine serum using UltraCULTURE™ Medium as a base formulation).

UltraCULTURE™ Medium has also been used to support the generation of viral particles for use in vaccine production.

UltraCULTURE™ Medium may be supplemented with cryoprotective medium (Cat. No. BP12-769E) to cryopreserve cells in a serum-free environment.

For answers to frequently asked questions and citations regarding these products, please visit our knowledge center: <https://knowledge.lonza.com>

II. Instructions for use

UltraCULTURE™ Medium is a complete, all-purpose serum-free medium that supports the growth of a wide variety of both non-adherent and adherent cell lines. The product is ready-to-use with the simple addition of 5.0 ml of L-glutamine solution (Cat. Nos. 17-605E, BE17-605E, BEBP17-605E) per 500 mL.

NOTE: For cells in serum-containing medium, weaning is NOT required.

Turbidity may develop in UltraCULTURE™ Medium. In-house experiments have determined the turbidity will not alter the performance of the product.

III. Selected list of cells cultivated with UltraCULTURE™ Medium

Cell Line	Source	Cell Type
HEL, N-10	Human	Fetal lung diploid fibroblast
HeLa	Human	Uterine cancer
HuL-1,2	Human	Liver (normal)
HuK-1	Human	Kidney (normal)
HuS-1AT	Human	Skin
HEC	Human	Embryonic cancer
HL-60	Human	Acute promyelocytic

		leukemia
Raji	Human	Burkitt's lymphoma
EB-3	Human	Burkitt's lymphoma
K-562	Human	Chronic myelocytic leukemia
HNK	Human	Neonatal kidney (primary)
HTC29	Human	Colon cancer
TT	Human	Medullary thyroid tumor
MB231	Human	Breast carcinoma
U138	Human	Glioma
FM3A	Mouse	Breast cancer
NS-1	Mouse	Myeloma
L	Mouse	Subcutaneous
P388D1	Mouse	Macrophage-like
P815	Mouse	Mast cell tumor
T3	Mouse	Pituitary
B82	Mouse	L cells – connective tissue
RPL-1	Rat	Peritoneum
RSP-2	Rat	Spleen
RLG-1	Rat	Lung
Lym-1	Rat	Lymph node
RCR-1	Rat	Brain
235-1, MNQ	Rat	Pituitary
GC, GH3	Rat	Pituitary
CA77	Rat	Medullary thyroid tumor
Rat-1	Rat	Fibroblast
JTC-12	Monkey	Kidney
COS1, COS7	African green monkey	SV40 transformed kidney monkey

IV. Storage

UltraCULTURE™ Medium should be stored at 2 - 8°C.

V. Ordering information

Cat. no.	Product	Size
BP12-725F	UltraCULTURE™	500 mL
BEBP12-725F	Medium; without L-glutamine	

Related products (sold separately)

Cat. no.	Product	Size
BP12-769E	ProFreeze™ CD(2X) Freezing Medium, Chemically Defined	100 mL
17-605E*		
BE17-605E*	L-Glutamine, 200 mM	100 mL
BEBP17-605E		

Product use statements

GMP PRODUCTS ARE INTENDED FOR RESEARCH OR FOR FURTHER MANUFACTURING USE ONLY. This product is not intended for direct therapeutic use in humans.

***THESE PRODUCTS ARE FOR RESEARCH USE ONLY.** Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or *in vitro* procedures

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