


UltraMEM™ Reduced Serum Media

General Purpose Serum-free Media

UltraMEM™ Reduced Serum Media are chemically defined media designed to support growth and maintenance of several anchorage-dependent cell types under reduced serum concentrations (see table). When supplemented with 2–4% serum, UltraMEM™ Media growth performance is comparable and, in some instances, exceeds that of standard media supplemented with 10% fetal bovine serum. Weaning is not necessary for most applications. Further reduction in serum concentration (<2%) can be achieved over several passages. In addition, confluent cultures can be maintained with minimal amounts of serum ($\leq 1\%$) or no serum at all. Growth performance in UltraMEM™ Media can be further increased by the addition of insulin, transferrin, selenium, and ethanolamine (ITS or ITES) to the basal medium [Catalog No. 17-838Z and 17-839Z respectively]. UltraMEM™ Reduced Serum Media are offered as a protein-free basal medium without L-glutamine, or as a complete low protein medium supplemented with ITES. Recombinant human insulin and transferrin are the only protein components of the complete formulation and are present at a total concentration of 20 µg/ml.


■ Applications

- Growth and maintenance of anchorage-dependent cell types

 2°C–8°C

Partial List of Cell Cultures Cultivated with UltraMEM™ Reduced Serum Medium

Cell Type	Recommended UltraMEM™1	Recommended % Serum
Diploid		
CEF, chicken fibroblast	with ITS/ITES	2% FBS
WI-38, human fibroblast	with or without ITES	3% FBS
RHMK, monkey kidney	with or without ITS/ITES	2–4% FBS
MRC-5, human fibroblast	with ITS/ITES	3% FBS
RK, rabbit kidney	with ITS/ITES	3% FBS
BGMK, monkey kidney	with ITS/ITES	2–3% FBS
HEL, human fibroblast	with ITS/ITES	2–3% FBS
CMK, monkey kidney	with ITS/ITES	3–4% FBS
Heteroploid		
RD, human sarcoma	without ITS/ITES	3–4% FBS
VERO, monkey kidney	with or without ITS/ITES	3% FBS
CRFK, cat kidney	with ITS/ITES	2–3% FBS
L929, mouse fibroblast	with or without ITS/ITES	4% FBS
MDCK, dog kidney	with ITS/ITES	2–3% FBS
McCOY, mouse fibroblast	with ITS/ITES	4% FBS
3T3, mouse fibroblast	with ITS/ITES	3–4% FBS
CHO-K1, hamster ovary	with ITS/ITES	3% FBS
PK-15, pig kidney	with ITS/ITES	3–4% FBS
MK2, monkey kidney	with or without ITS/ITES	3–4% FBS

 ITS/ITES should not be refrozen. It can be kept refrigerated (2°C–8°C) for up to a month. ITS/ITES means either one supplement or the other.

Ordering Information – UltraMEM™ Reduced Serum Medium

Cat. No. NA	Réf. Ozyme	Product Name	Product Description	Storage Conditions	Size
12-745F	12-745F	UltraMEM™ Reduced Serum Medium	Protein-free basal medium without L-glutamine	2°C–8°C	500 ml
12-743F	BE12-743F	UltraMEM™ Reduced Serum Medium	Low protein medium with ITES and L-glutamine	2°C–8°C	500 ml