PALL BIOSEPRA
PRODUCT SHEET

BioSepra® Ultroser® G, SF, HY

Ultroser® G, SF, HY Serum Substitutes

Description

The present trend of cell biologists is to replace serum (generally fetal calf serum) by better defined and constant substitution media such as **Ultroser** G, SF, HY serum substitutes. The main advantages of these serum substitutes are :

- Semi-defined composition ensuring batch-to-batch biological reproducibility,
- Low protein content,
- Easy use and storage.

Ultroser has a concentration 5 times higher than fetal calf serum (2% of reconstituted **Ultroser** are equivalent to 10% of fetal calf serum in the basal medium).

The quality control tests usually performed on Ultroser batches are listed in Table 1.

Applications

• Ultroser® G and SF

Ultroser G has been successfully used for the culture of numerous anchorage-dependent cells for either basic research or diagnostic purposes. It is particularly useful in prenatal diagnosis for the culture of amniotic cells for karyotyping.

Ultroser SF may be used for the culture of adherent cells that require a low steroid medium.

• Ultroser® HY

Ultroser HY is particularly useful for the culture of hybridomas and lymphoblastoid cells. It may replace fetal calf serum for fusion, growth and secretion steps. It does not contain any immuno-globulins nor mitogen lectins.

Hybridomas can be easily cultured with **Ultroser** HY after a short adaptation time at laboratory and industrial scale.

Table 1. Quality control tests performed on Ultroser G, SF, HY.

	Ultroser G	Ultroser SF	Ultroser HY
Physicochemical parameters			
- pH	X	X	X
- Protein concentration	X	X	X
Sterility control :			
- Bacteria & fungi	X	X	X
- Bovine viruses (BHV1-DVB/MM, hemadsorbents)	X	X	X
- Mycoplasma	X	X	X
Proliferation capacity	Hep G2	Muscular cells	2 different hybridomas
Secretion of antibodies	-	-	Goat antibody anti-mouse IgM
Karyotyping	X	-	-

BioSepra® Ultroser® G, SF, HY

References

Ultroser G

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Ultroser HY

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Table 2. Cells successfully tested with Ultroser G, SF, HY.

Ultroser G	Ultroser SF	Ultroser HY
Glial cells	Trout sertoli cells	Myeloma :
Rat myocytes	Testis trout cells	*- SP2/O*
Human myocytes	Myocytes (rat aortic smooth muscle cells)	*- P3 x 63 Ag 8*
Amniotic cells	Sol 8 mouse muscle cell lines	*- P3 x 63 Ag 8653*
Vero	Modified skeletal muscles	*- P3 - NS 1/1 Ag 4-1*
CHO	Muscle cell lines from dog, mouse, human	*- 210-RCY3-Ag1*
BHK		Hybridomas:
Bone marrow cells		*- IH8-4* *- EJ 16*
Fibroblasts skin cells		*- 1 BL7-2* *- Ei2-1*
HeLa		*- II CR-10* *- E G9-11*
MRC-5		*- III BZ-24* *- 1 BA 12*
Thyroïd cells		*- CN 9528*
Chondrocytes		Lymphoblastoid cell lines:
Arterial cells		*- LL 80-LL 106*
Leydig cells		*- LL 13*
Lewis cells		*- LL 60*
Chicken fibroblasts		*- LL 62*
Promyelocytes HL60		*- LL 23*
Raji		*- Daudi*
P3HR1		*- HL 60*
Astrocytes		
Erythroblasts		
Hypothalamic cells		
Keratinocytes		

Ordering Information

Product	Pack size	Part Number
Ultroser G (lyophilized)	20 mL	15950-017
Ultroser SF (frozen)	10x10 mL	12039-012
Ultroser HY (lyophilized)	20 mL	66029-018
Ultroser HY (frozen)	400 mL	12038-022

CE **Ultroser G** serum substitute is CE mark-certified.

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