

XerumFree[®] defined cell culture



Culturing cells in vitro without the use of serum and without any animal or human derived compound.



XerumFree is a fully defined additive, avoiding the need for serum, for a wide range of cell culture practices. Since XerumFree is chemically defined it avoids lot-to-lot variations. All components in XerumFree are highly purified and identified chemical compounds.

XerumFree Benefits

Culturing cells in a XerumFree enriched medium represents a number of benefits as compared to conventional FBS enriched media.

- Due to its chemically defined nature there are no lot-to-lot variations. This skips the need for testing new batches of serum.
- There is no interference of unknown serum compounds in your research
- Since it doesn't contain hormones nor cytokines it doesn't bias your research data
- XerumFree is save in use, since it doesn't contain animal or human derived materials
- It can be stored in the refrigerator. No need for thawing before use.

XerumFree[®]

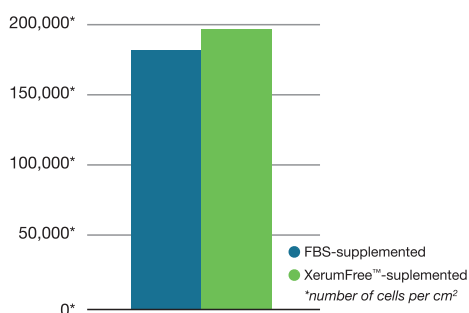
XerumFree easy use:

Just add XerumFree to your culture medium as you do with FBS (usually 10%). To shift from FBS containing media to XerumFree containing medium we advise to follow the step-by-step weaning of the cells as described in the manual of use (available on request, or can be downloaded from our website)

Examples of cells which have successfully been cultured on XerumFree enriched medium:

- Liver epithelial cells
- Primary human hepatocytes
- VERO
- CHO
- HeLa
- Human keratinocytes
- HaCaT
- Hybridoma
- HEK293
- HEP G2
- Etc.

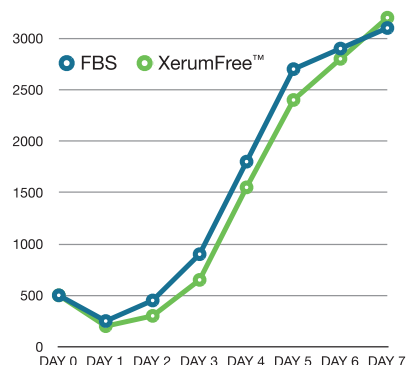
Evaluation of growth in serum-supplemented versus XerumFree™- supplemented medium.



This study compares the growth dynamics of Vero cells fully adapted to serum-free growth in XerumFree™-supplemented medium against those of the parental line growing on FBS-supplemented medium. The result are from a 6-day culture period in T25 flasks.

Medium	Seeding cell density (per cm ²)	Final cell density (per cm ²)	Cell Multiplication Index
Williams ME + 10% FBS	20,000	184,000	9.20
Williams ME + 10% XF™	20,000	197,000	9.85

Growth curves of human fibroblasts in 10% FBS vs XerumFree™



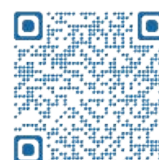
Y-axis: Number of cells x 1000
 Basal medium: DMEM/F12
 Cells: Human telomerase immortalised fibroblasts
 The results: A mean of three replicate cultures

Catalog number	Volume	Product
XF212-0100	100 ml	XerumFree
XF212-0500	500 ml	XerumFree
XF212-xxxx	on request / customized	XerumFree

This product is for in vitro laboratory use or further manufacturing only.



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