ISF-1

Medium for Hybridoma

AC-LM-0115	500 ml
AC-LM-0116	1000 ml

Storage conditions: 2 C° - 8 C°

Shelf life: 18 months

Product Description:

ISF-1 Medium is a serum-free and defined medium for in vitro cultivation and expansion of hybridoma cell lines.

High yield and final concentration of monoclonal Antibodys (mAb) can be achieved.

Composition:

Because ISF-1 is produced with stable glutamine and surfactant, no additional supplementation is required for agitated suspension culture.

ISF-1 works well for a variety of hybridoma systems, but will not grow cholesterol dependent cell lines without further supplementation (Addition of a lipoprotein preparation or other source of cholesterol is needed for these cell lines).

SF-1 is compatible with most antibiotics, including Penicillin/Streptomycin, Gentamicin, Puromycin or Fungizone.

The use of antibiotics could reduce the yield and productivity of hybridoma cell lines.

Recommended use:

ISF-1 is a ready to use medium for cultivation of hybridoma cell lines at 37 °C in a humified atmosphere with 5 % CO2.

Adaption to serum free medium

A direct adaption to serum free culture in ISF-1 medium is possible in most cases, but it is also possible to use an indirect adaption sequence.

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In both cases the seed cells should be harvested in mid log-phase with high viability.

Success of the adaption will depend on the particular cell line and the culture conditions employed.

It is recommended maintaining a backup culture in the original medium until successful adaption to ISF-1 is achieved.

Direct adaption:

1. Transfer the cells growing in serum-supplemented medium to prewarmed ISF-1.

   Seeding density should correspond with normal seeding density of the cell line.

   Incubate the cells at 37 °C in a humified atmosphere of 5 % CO2.
2. Subculture the cell line monitoring cell growth and viability for 4 – 8 passages.
3. If the culture fails to maintain acceptable growth and viability over 4 – 8 passages,

   use the indirect adaption protocol.

Indirect adaption:

1. Inoculate cells at double the normal seeding density in a 3:1 mixture of serum supplemented : serum-free medium.
2. After reaching 106 viable cells/ml subculture in a 1:1 mixture of serum supplemented : serum-free medium.
3. After reaching 106 viable cells/ml subculture into a 1:3 mixture of serum supplemented : serum-free medium.
4. After reaching 106 viable cells/ml subculture into 100 % serum-free medium.