Chemically Defined Lipid Concentrate

Cat. No.: PB180643

Size: 10mL / 100mL

Product Description

Lipid concentrates with clear chemical compositions are a type of concentrated fat emulsion. As an important component of cell membranes, lipid substances can be used as additives in the culture process of suspended cells such as CHO.

Component

Components	Molecular Weight	Concentration (mg/L)	Concentration (mM)
Arachidonic Acid	304.74	2.0	0.006562972
Cholesterol	386.65	220.0	0.56899005
DL-alpha-Tocopherol Acetate	472.74	70.0	0.14807294
Ethyl Alcohol 100%		Confidential	n/a
Linoleic Acid	280.45	10.0	0.035656977
Linolenic Acid	278.44	10.0	0.03591438
Myristic Acid	228.38	10.0	0.04378667
Oleic Acid	282.47	10.0	0.03540199
Palmitic Acid	256.43	10.0	0.038997
Palmitoleic Acid	254.41	10.0	0.03930663
Pluronic F-68	7680.0	90000.0	11.71875
Stearic Acid	284.48	10.0	0.035151854
Tween 80	1310.0	Confidential	n/a

Protocol

The lipid concentrate with a clearly defined chemical composition is a sterile product and can be used directly. This product has been tested in CHO cells in suspension culture, with dilution ranges from 1:250 to 1:1000 (as shown in the table below).

Cell line	Recommended Dilution
CHO	1:250-1:1000

Storage and Transportation

Storage Conditions：2-8°C, away from light.

Transportation conditions：Transport at room temperature.

Notes

1. This product is only used for scientific research or further research, not for diagnosis and treatment.
2. This product is packaged aseptically, please use it aseptically. If there are bacteria in the process of use, it is not recommended to filter and sterilize, as it may filter out the effective components

of the emulsion.

3. This product contains surfactants, so it may not be suitable for the growth of some adherent cell lines. Moreover, adding this product to culture media containing surfactants may result in cellular toxicity.
4. Try to minimize exposure to air as this product contains unsaturated fatty acids, which may oxidize if exposed to air for a long time. After opening the bottle, it is recommended to pack and store it separately to prevent freezing.

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