

Product Information

Enriched Calf Serum Optimized for CHO Sourced in Australia/New Zealand heat inactivated

CATALOG NO. 13046C

Description

Enriched Calf Serum is a medium supplement that is effective as a Fetal Bovine Serum (FBS) substitute for many cell culture applications, especially CHO. Enriched Calf Serum contains Australian-sourced Bovine Calf Serum (BCS) supplemented with proteins that promote nutrient transport, cell attachment and cell growth.

CHO cells grown in standard serum-supplemented media can be transferred directly into medium supplemented with Enriched Calf Serum with no adaptation, loss of cell yield, decreased viability or morphological changes.

This product formulation contains material derived from whole bovine blood collected in Australia and New Zealand. The serum is not collected from cattle born, raised, shipped through or slaughtered in countries where Bovine Spongiform Encephalopathy (BSE) is known to exist. All other components in this product formulation are produced through microbial fermentation, plant extraction, obtained by chemical synthesis or mined. A Certificate of Analysis indicating the country of origin is available for each lot of serum.

Heat inactivation is commonly used to destroy complement. Heat inactivation is the method of choice of many investigators to insure that cells will not be lysed to antibody binding and complement activation. SAFC Biosciences' validated process consists of raising the temperature to 56 C for 30 minutes under controlled conditions.

Formulation

The formulation for Enriched Calf Serum is proprietary to SAFC Biosciences. For additional information please call our Technical Services department.

Precautions

This product is for further manufacturing use. THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.

Storage

Store Enriched Calf Serum at -10 to -40 C. Do not use after the expiration date.

Preparation Instructions

Thawing

1. Remove the supplement bottles from the freezer and allow them to acclimate to room temperature for approximately 10 minutes.
2. Place each container in a 30 to 37 C water bath or incubator. Excessive temperatures will degrade heat labile nutrients. If using a water bath, prevent the bottle caps from being completely submerged.
3. Gently swirl or shake the bottles every 10 - 15 minutes until the serum is completely thawed.
4. After thawing, use the supplement promptly. Liquid supplement may be stored refrigerated (2 to 8 C) up to four weeks. To avoid thaw/freeze cycles or long periods of refrigeration, it is recommended that any unused supplement be immediately dispensed into small, useful aliquots and refrozen for future use.

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Periodic agitation is crucial for optimum performance. If a bottle is not periodically shaken or swirled as it thaws, gradients containing high concentrations of salts, proteins and lipids will form throughout the liquid portion and lead to the formation of crystalline or flocculent precipitates. These cryoprecipitates are not toxic to cell cultures, but they affect the appearance and consistency of each bottle.

Small amounts of cryoprecipitates are not uncommon, and will not affect product performance. Gently warming and mixing the supplement will generally allow the material to go back into solution.

Characteristics

**Adventitious Viral Agents (AVA) (EMEA/CPMP/1793/02)
(meets and exceeds 9CFR 113.53)**

None detected

Endotoxin

≤ 10.0 EU/mL

Mycoplasma (EP)

None detected

Sterility (Current USP and EP)

No microbial growth detected

Warranty, Limitation of Remedies

S AFC Biosciences warrants to the purchaser for a period of one year from date of delivery that this product conforms to its specifications. Other terms and conditions of this warranty are contained in S AFC Biosciences' written warranty, a copy of which is available upon request. ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. In no case will S AFC Biosciences be liable for any special, incidental, or consequential damages arising out of this product or the use of this product by the customer or any third party based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. S AFC Biosciences expressly disclaims any warranty against claims by any third party by way of infringement or the like. THIS PRODUCT IS INTENDED FOR PURPOSES DESCRIBED ONLY AND IS NOT INTENDED FOR ANY HUMAN OR THERAPEUTIC USE.

Additional Terms and Conditions are contained in the product Catalog, a copy of which is available upon request.

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Issued December 2006 P13046
0504 0805 0905 0406 0906

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