Product Name:	QuaCell® Fetal Bovine Serum (FBS), Charcoal Stripped
Catalog Number:	B21003
Unit Size Availability:	100ml
Formulation:	Frozen
Defined Storage Conditions:	-30°C ~ -5°C
Stability:	60 months

Description

Charcoal stripped fetal bovine serum has been absorbed with activated carbon that removes non-polar material such as lipophilic (lipid-related) materials (virus, certain growth factors, hormones and cytokines) regardless of molecular weight but has little effect on salts, glucose, amino acids, etc.

It provides a more defined material for elucidate the effects of hormones in a variety of in vitro systems. Studies include steroid- receptor binding, steroid regulation of cellular receptors, hormone secretion of various tissues and the function of thyroid hormones.

QuaCell® Charcoal Stripped FBS is processed on the basis of Fetal Bovine Serum (FBS), Qualified (QuaCell Cat.# B21001). The production procedure includes the use of charcoal and dextran to remove the hormones from the FBS.

Parameters

Filter	100 nm sterile-filtered
Original	Uruguay
Age	Fetal
Endotoxin Level	≤5 EU/ml
Doubling Time (MCF-7)	≤30 h
Single Cell Growth Rate	≥20 %

Product Intended Use

Use aseptic technique when handling or supplementing this medium. This product is for research or for further manufacturing use.

CAUTION: Not for human or animal therapeutic use. Uses other than the intended use may be a violation of local law.

Safety information

Read the Material Safety Data Sheets (MSDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

Storage / Stability

This material, like all other materials utilized in the laboratory setting should be handled only by trained personnel familiar with Laboratory Procedures regarding the Handling, Use, Storage and Disposal of chemical products especially hazardous or potentially hazardous products. For prolonged storage, place in the dark under the specified storage conditions stipulated on the label.

Please note that Serum should never be taken from a frozen or refrigerated state and placed in a water bath to expedite the thawing/warming procedure. Such handling compromises the serum quality and may cause the bottle to break. After the serum has reached room temperature, it may be then pre-warmed slowly to 37°C while mixing the contents thoroughly before adding to the medium of choice.

Procedure

1) Take a bottle out of the proper storage conditions at –20ºC and read the label.
2) Thaw to room temperature.
3) Ensure that the cap of the bottle is tight.
4) Gently swirl the solution in the bottle.
5) Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
6) Using aseptic/sterile technique under a laminar-flow culture hood, work according to established protocols.

As the selection of a nutrient medium or supplementation

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thereof is strongly influenced, among others, by many factors, of note are three major considerations:

- Cell Type
- Type of Culture (e.g., Clonal, Monolayer, Suspension)
- Degree of Chemical Definition

It is recommended to review the extensive literature concerning cell-culture media and its supplementation and the physiological parameters required for each specific cell-line as per their essential requirements.

References

1. Coated charcoal immunoassay of insulin, Herbert, V., et al., J. Clin. Endocr., 25(10), 1375-1384 (1965).
2. Steroid Hormones: A Practical Approach, Green, B., and Leake, R. E., IRL Press (Oxford, UK: 1987), pp. 213-214.
3. Dextran-Coated Charcoal Immtmoassay of Insulin, P.M. Keane, J. Pearson and W. H. C. Walker, Diabetologia 4, 339-344 (1968).
4. Product Information: Charcoal, dextran coated, Sigma

Related Products

Cat.No.	Product
B21001	QuaCell® Fetal Bovine Serum (FBS), Qualified

Explanation of Symbols and Warnings

		
Sterilized using aseptic processing techniques	Use By:	Store Temperature
		
Batch code	Dry preservation	Keep away from light
		
Research use only	GMP Manufacturing	Sticky notes

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