

★ Storage

Store at -20 ~ -80°C.
Please prevent repeated freeze-thaw cycles.

★ Contents

- FBS Opti-Gold, Performance Enhanced
- Product Insert

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

★ Shipping Condition

Frozen on dry ice.

★ Introduction

Traditionally, Fetal Bovine Serum has been the principal component in media for the growth and maintenance of cell cultures. However, Fetal Bovine Serum gives many unpredictable background for the downstream applications. FBS Opti-Gold, Performance Enhanced is the most innovative engineered FBS in order to reduce FBS unknown factors and lot-to-lot variation, FBS Opti-Gold, Performance Enhanced contains reduced immune complex and additional nutrients to provide easier adaptation, superior cell growth, and enhanced protein productivity. FBS Opti-Gold, Performance Enhanced is good for many downstream application such as primary cell culture, sub-culturing, vaccine production, protein production, transfection and other many application required for reduced Fetal Bovine Serum background.

★ Thaw FBS

Frozen serum should be thawed rapidly to avoid prolonged exposure of serum nutrients to high salt concentrations during the thaw period. Remove the serum from frozen storage and thaw in a water bath with temperature ranging from 26°C to 30°C. Periodically agitate the bottle during the thawing process to resuspend the viscous solutes and to avoid the formation of salt, protein, and lipid gradients that can lead to excessive precipitation. Promptly remove the serum from the water bath as soon as the serum is completely thawed. Thoroughly mix the thawed serum before it is added to a culture medium or heat inactivated as serum components such as proteins and salts tend to concentrate at the bottom of the container during thawing. Thawing of serum at temperature above 37°C is not recommended. This process may degrade heat labile nutrients, thus compromising the integrity and performance of the product, and can cause increased precipitate formation. Once serum is thawed, it should be used promptly or divided into single-use aliquots and refrozen. Alternatively, unused portions of thawed serum may be stored at refrigerated temperatures (2 to 8°C) for a short period of time. However, the length of time that serum can be stored refrigerated with acceptable cell culture results with different cell lines. Avoid thaw-freeze cycles or long periods of refrigeration as this can result in a decrease of stability and performance of the serum.

★ Heat-Inactivation

You can incubate the thawed product at a thermostatically controlled temperature of 56°C for 30 minutes. Serum can be heat-inactivated in both our plastic and glass bottles.

Note: Do not attempt to heat-inactivate at a higher temperature for prolonged periods as this may compromise the product's performance through protein denaturation.

Note: Using FBS Opti-Gold, Performance Enhanced heat inactivation is not necessary to inactivate serum, apart for maybe a couple of sensitive cell lines which specifically require it. FBS Opti-Gold, Performance Enhanced contains minimized immune complex, normally do not require heat inactivation step.

★ Related Products

Product Name	Cat No
DMEM, High Glucose, without Sod Bicarbonate	CM001
DMEM, High Glucose, with Sod Bicarbonate	CM002
MEM with Earle's salt	CM041
RPMI-1640 with HEPES	CM058
RPMI-1640	CM059
Trypsin-EDTA(1X)	CA014
Trypsin-EDTA(10X)	CA015
Scrptase, Non-Animal Origin Dissociation Solution(1X)	CA110
Dispase Solution, 1mg/ml	CA092
Collagenase/Hyaluronidase(10X) in DMEM	CA094
Antibiotics-Antimycotics(100X)	CA002
Penicillin-Streptomycin(100X)	CA005
Dulbecco's Phosphate-Buffered Saline(DPBS)(1X)	CA008
Cellmaxin, 10mg/ml	C3314
Cellmaxin Plus, 10.5mg/ml	C3319
Ceracryo, Xeno-Free Cell Freezing Medium	C0667
Water, 0.1um Filtered, Cell Culture Tested	W0900