

RPMI-1640 Medium, Pen-Strep

Cat. No.: G4531PS

Product Information

Product Name	Cat. No.	Spec.
RPMI-1640 Medium, Pen-Strep	G4531PS-500ML	500 mL

Product Description/Introduction

The RPMI in RPMI-1640 is an acronym for Roswell Park Memorial Institute, which stands for the Roswell Park Memorial Institute, and RPMI-1640 is a cell culture medium developed by the institute. Originally designed specifically for lymphocyte culture, this medium is now widely used for the culture of various normal and cancer cells, especially suspension cells, and is one of the most widely used media.

This product contains many kinds of amino acids, vitamins, inorganic salts and other ingredients required for cell culture, does not contain protein or growth factors, need to be added according to the type of cells 5-10% serum or serum-free additives to use.

This product is filtered and sterilized by 0.1 μ m membrane, pH 7.0-7.4, containing 11.1 mM D-glucose, with 2.05 mM L-alanyl-L-glutamine added, containing phenol red indicator, containing 100 KU/L Penicillin G sodium salt, 100 mg/L Streptomycin Sulfate, without Sodium Pyruvate, and without HEPES buffer system.

L-Alanyl-L-Glutamine, a cell culture additive, replaces medium moles of L-glutamine in cell culture media. The substance is very stable in aqueous solution and does not degrade spontaneously, but is slowly degraded by a peptidase secreted by cells to release glutamine, which is then taken up and utilized by the cells.

Penicillin can interfere with the synthesis of bacterial cell walls and is especially effective against gram-positive bacteria. Streptomycin can bind to the 30S subunit of the bacterial ribosome and inhibit the synthesis of bacterial proteins. It is effective against both gram-negative and Gram-positive bacteria, but it is particularly effective against Gram-negative bacteria. The combination of penicillin and streptomycin can prevent most bacterial contamination.

Storage and Shipping Conditions

Ship at room temperature; Store away from light at 2-8°C, valid for 12 months.

Note

1. This product has been filtered and sterilized. Attention should be paid to aseptic operation during use to avoid contamination;
2. Avoid freezing the medium, as ice formation can lead to precipitation of nutrients, which may not fully dissolve upon thawing, affecting cell culture performance. Additionally, when storing the medium at 2-8°C in a refrigerator, do not place it directly against the inner wall to prevent local chilling that could cause the medium to freeze.

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Ver. No.: V1.1-20260528