

DMEM, no Glucose, without Phenol Red, with GlutaPlus, Powder

Cat. No.: G4584P

Product Information

Product Name	Cat. No.	Spec.
DMEM, no Glucose, without Phenol Red, with GlutaPlus, Powder	G4584P-1L	1 L
	G4584P-10L	10 L
	G4584P-50L	50 L

Product Description

Dulbecco's Modified Eagle Medium (DMEM), is a modified medium based on MEM, is a widely used basal medium for supporting the growth of many different mammalian cells. Cells successfully cultured in DMEM include primary fibroblasts, neurons, glial cells, HUVECs, and smooth muscle cells, as well as cell lines such as HeLa, 293, Cos-7, and PC-12. This product contains amino acids, vitamins, inorganic salts and other ingredients required for cell culture, without protein or growth factors. Need to add 5-10% serum or serum-free additives depending on the cell type.

This product is provided as powder, without glucose, without phenol red indicator, without HEPES, without sodium pyruvate, contains 4.0 mM L-alanyl-L-glutamine. The powder forms of culture medium require sodium bicarbonate supplementation, pH adjustment, and filtration at the time of preparation (see protocols below for details).

Storage and Shipping Conditions

Ship at room temperature; Store away from light at 2-8°C, valid for 36 months.

General guidelines

1. Please use sterile solutions of 1 N NaOH or HCl prepared by membrane filtration using appropriate filters. Filter using a low protein binding filter.
2. Keep the container with medium covered during stirring and filtration.
3. Do not over-mix. Stop stirring when the product is completely dissolved.

Procedures of liquid media preparation from powder

1. To a mixing container that is as close to the final volume as possible, add 950 mL of distilled water.
2. Add DMEM, high glucose, powdered medium 13.7 g to room temperature (15°C to 30°C) water (recommended WFI for cell culture or distilled water) with gentle stirring. Do not heat the water.

3. Rinse the inside of package to remove all traces of powder.
4. Add sodium bicarbonate (3.7 g/L) to the medium.
5. Adjust the pH to 0.2-0.3 units below the desired final working pH by slowly adding, with stirring, 1 N NaOH or 1 N HCl. The pH may rise 0.1 to 0.3 units upon filtration.
6. Adjust the final volume with distilled water.
7. Process the medium immediately into sterile containers by membrane filtration with a 0.2- μ m filter using a positive pressure system.

For Research Use Only!

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