



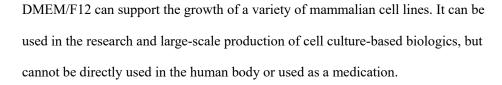
The User's Manual—DMEM/F12

Basic Information Introduction

Product Introduction

DMEM/F12 (Dulbecco's Modified Eagle Medium) is a widely used basal media containing Glutamine, it can support the growth of a variety of mammalian cell lines.

Application Scope





Shipping, Storage and Validity Period

Product	Catalog No.	Storage	Shipping	Validity Period
DMEM/F12	LQ04, Liquid	2°C ~ 8°C, Protect from light	$2^{\circ}\text{C} \sim 8^{\circ}\text{C}$, Protect from light	12 months
DMEM/F12	DP04, Powder	2°C ~ 8°C, Protect from light	RT, Protect from light	36 months

Protocol for Hydration of Powder Medium

- 1. Fill the mixing container with purified water $(20 \sim 30^{\circ}\text{C})$ at 90% of the final volume.
- 2. Slowly add 12.00 g/L of powder medium with gentle stirring. Mix for 20 minutes.
- 3. Slowly add 2.438 g/L NaHCO₃ to the solution with gentle stirring, mix for $5 \sim 10$ minutes.
- 4. Adjust the pH to $7.0 \sim 7.6$ using 5M NaOH or 1M HCl solution, mix for 10 minutes.
- 5. Adjust the solution volume to 100% with purified water, mix for 10 minutes.
- 6. Filter immediately the media with a 0.22 μm membrane filter.





Version 2, 2023

Quality Index of powder and Liquid Media

Product Index	DMEM/F12 (LQ04), Liquid	DMEM/F12 (DP04), Powder	
Appearance	Red, clear liquid	Off pink powder	
pH	$7.0 \sim 7.6$		
Osmolality (mOsmol/kg)	280 ~ 340	280 ~ 340	
Solubility		Dissolve well according to the protocol for hydration of powder medium	
Endotoxin (EU/mL)	< 3	< 3	
Sterility	Negative		
Bioburden		Aerobic bacteria: < 200 CFU/g Molds and yeasts: < 50 CFU/g	