

Dulbecco's Modified Eagle Medium/Nutrient Mixture F12 (1X)

(High-Glucose with L-Glutamine, Sodium Pyruvate and Phenol Red); SKU no RBDMEMF01

Technical Datasheet:

Product Name:	Dulbecco's Modified Eagle Medium/Nutrient Mixture F12 (DMEM/F12) (1X) (High-Glucose with L-Glutamine, Sodium Pyruvate and Phenol Red)	
Catalogue No.:	RBDMEMF01	
Description:	<p>Dulbecco's Modified Eagle Medium/Nutrient Mixture F12 (DMEM/F12) is a 1:1 mixture combining the benefits of DMEM with the added nutrients found in Ham's F-12 medium. It is a commonly-used classical cell culture medium and is used for culture of several cells, including MDCK, glial cells, fibroblasts, human endothelial cells, and rat fibroblasts etc.</p> <p>This DMEM/F12 is formulated with high Glucose (3.151 g/L), L-Glutamine, Sodium Pyruvate and Phenol Red. Also available in custom formulations (with/without L-Glutamine, Phenol Red and HEPES)¹.</p>	
Specifications:	Form:	Liquid
	Concentration:	1 X
	pH:	7.2 ± 0.2
	Osmolality:	290–330 mOsm/kg
Quality Control:	Sterility²:	Sterile
	Endotoxin³:	< 1.0 EU/mL
	Sp2 Toxicity Assay⁴:	Passes
	Mycoplasma⁵:	Negative
Physical Appearance:	Sterile-filtered coloured solution	
Storage Temperature:	2–8°C; protect from light	
Shelf Life:	12 months from the date of manufacturing	
Manufacturing Quality:	GMP-compliant under the ISO 13485:2016 standard. Formulated using Animal Origin-Free (AOF) components.	

¹ Available on request

² Sterility Testing (Bacterial and Fungal) carried out in accordance with < USP 71 >

³ Bacterial Endotoxin Testing carried out in accordance with < USP 85 >

⁴ Sp2 Toxicity Assay: Cells used: Murine myeloma cells, Sp2/01-Ag 14; 5 × 10³ cells/well are seeded in complete reference control medium and complete test medium in a 96-well plate (in triplicates) and incubated at 37°C in a CO₂ incubator. Growth rates and viability of Sp2 cells in complete test medium must be comparable (80–200%) to parallel cultures grown in complete reference control medium to be acceptable.

⁵ Mycoplasma Test carried out using a Real Time PCR-based kit



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