

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

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

### Technical Datasheet:

<b>Product Name:</b>	<b>Dulbecco's Modified Eagle Medium/Nutrient Mixture F12 (DMEM/F12) (1X) (High-Glucose with L-Glutamine, Sodium Pyruvate and Phenol Red)</b>	
<b>Catalogue No.:</b>	RBDMEMF01	
<b>Description:</b>	<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)<sup>1</sup>.</p>	
<b>Specifications:</b>	<b>Form:</b>	Liquid
	<b>Concentration:</b>	1 X
	<b>pH:</b>	7.2 ± 0.2
	<b>Osmolality:</b>	290–330 mOsm/kg
<b>Quality Control:</b>	<b>Sterility<sup>2</sup>:</b>	Sterile
	<b>Endotoxin<sup>3</sup>:</b>	< 0.25 EU/mL
	<b>Sp2 Toxicity Assay<sup>4</sup>:</b>	Passes
	<b>Mycoplasma<sup>5</sup>:</b>	Negative
<b>Physical Appearance:</b>	Sterile-filtered coloured solution	
<b>Storage Temperature:</b>	2–8°C; protect from light	
<b>Shelf Life:</b>	12 months from the date of manufacturing	
<b>Manufacturing Quality:</b>	GMP-compliant under the ISO 13485:2016 standard. Formulated using Animal Origin-Free (AOF) components.	

<sup>1</sup> Available on request

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

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

<sup>4</sup> Sp2 Toxicity Assay: Cells used: Murine myeloma cells, Sp2/01-Ag 14; 5 × 10<sup>3</sup> 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 CO<sub>2</sub> 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.

<sup>5</sup> Mycoplasma Test carried out using a Real Time PCR-based kit

