

## Dulbecco's Modified Eagle Medium (1X)

(Low-Glucose with L-Glutamine, Sodium Pyruvate and Phenol Red); SKU no RBDMEM02

### Technical Datasheet:

<b>Product Name:</b>	<b>Dulbecco's Modified Eagle Medium (DMEM) (1X)</b> <b>(Low-Glucose with L-Glutamine, Sodium Pyruvate and Phenol Red)</b>	
<b>Catalogue No.:</b>	RBDMEM02	
<b>Description:</b>	<p>Dulbecco's Modified Eagle Medium (DMEM) is a modification to the original Eagle's Minimum Essential Medium and has 4 times the concentration of amino acids and vitamins. It is a commonly-used classical cell culture medium and is used for culture of several suspension and adherent cells, including HeLa, 293T, Cos-1/7, NIH-3T3, Balb-3T3 etc.</p> <p>This DMEM is formulated with low glucose (1.0 g/L), L-Glutamine, Sodium Pyruvate and Phenol Red. Also available in custom formulations (with high glucose and with/without L Glutamine, Phenol Red, Sodium pyruvate and HEPES)<sup>1</sup>.</p>	
<b>Specifications:</b>	<b>Form:</b>	Liquid
	<b>Concentration:</b>	1 X
	<b>pH:</b>	7.0–7.6
	<b>Osmolality:</b>	285–348 mOsm/kg
<b>Quality Control:</b>	<b>Sterility<sup>2</sup>:</b>	Sterile
	<b>Endotoxin<sup>3</sup>:</b>	< 1.0 EU/mL
	<b>Cell Growth Test <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> Cell Growth Test: Medium is tested for its ability to support the growth of HeLa cells. A total of  $2.5 \times 10^4$  cells/well are seeded in complete test medium (DMEM low glucose + 10% FBS) in a 96-well plate (in triplicates) and incubated at 37°C in a CO2 incubator for up to 72 hours. Morphology and cell growth are assessed qualitatively by microscopic examination and quantitatively by estimating cell counts at 24-hour intervals. The HeLa cells should proliferate and show confluent growth in the complete test medium to be acceptable.

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



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