Minimum Essential Medium (1X)

(L-Glutamine and Phenol Red); SKU no RBMEM01

Technical Datasheet:

Product Name:	**Minimum Essential Medium (MEM) (1X) (with L-Glutamine and Phenol Red)**	
Catalogue No.:	RBMEM01	
Description:	Minimum Essential Medium (MEM), originally developed by Henry Eagle, is a commonly-used classical cell culture medium and is used for culture of several suspension and adherent cells, including Vero, HeLa, BHK-21, HEK-293, MCF-7 etc. This MEM is formulated with L-Glutamine and Phenol Red. Also available in custom formulations (with/without L-Glutamine, Phenol Red, Sodium pyruvate and HEPES)[1].	
Specifications:	**Form:** **Concentration:**	Liquid 1 X
Quality Control:	**pH:** **Osmolality:** **Sterility[2]:** **Endotoxin[3]:** **Sp2 Toxicity Assay[4]:** **Mycoplasma[5]:**	7.2 ± 0.2 280–330 mOsm/kg Sterile < 0.25 EU/mL Passes 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; 5×10^3 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_2 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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