

RPMI-1640

Roswell Park Memorial Institute (RPMI) media are a series of media developed by Moore et al for the culture of human normal and neoplastic cells in vitro. RPMI-1640 media is the most commonly used medium in this series. A modification of McCoy's 5A Medium, this medium was specifically designed to support the growth of human lymphoblastoid cells in suspension culture. Presently the medium is extensively used for a wide range of anchorage dependant cell lines. The medium needs to be supplemented with 5-20 % fetal bovine serum. The medium is also known to support growth of cells in the absence of serum.

Suitability of RPMI-1640 for Cell Culture of Multiple Cell Types

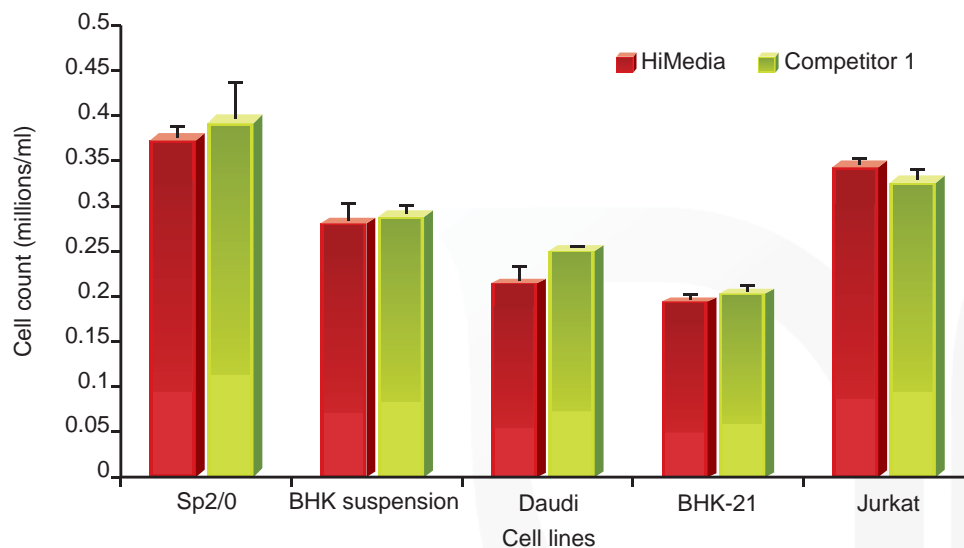


Fig 1.1: Comparative Performance of HiMedia and Competitor RPMI-1640 in different cell lines.

HiMedia RPMI-1640 supplemented with 10% FBS (Foetal Bovine Serum) was compared to competitor RPMI-1640 for growth promotion test for various cell lines. Seeding densities varied as per the cell line. Cells were seeded in triplicate in a 24 well plate and incubated at 37°C with 5% CO₂ and 95% air over a 4 day passage cycle. Samples were taken daily and evaluated for cell density and morphology. Data depicted in the graph represents the average count obtained on day 4 of the third passage.

Applications

1. Cultivation of peripheral blood mononuclear cells and other primary cells.
2. Cultivation of anchorage dependent cell lines.

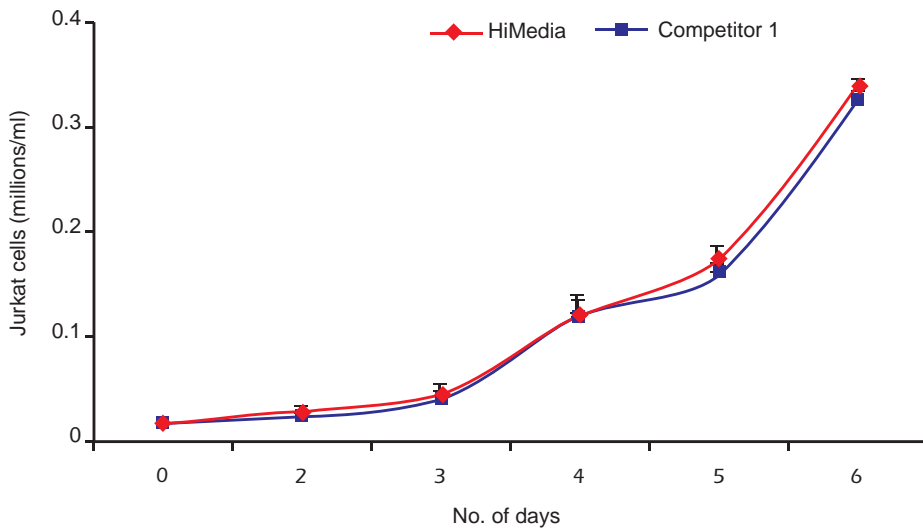


Fig 1.3: Growth curve for Jurkat cell line.

Jurkat cells were seeded at 0.1×10^6 cells/ml in triplicate in a 24 well plate and incubated at 37°C with 5% CO₂ and 95% air. Samples were taken daily after two days and evaluated for cell density and morphology. Cell growth and morphology of HiMedia was found comparable to the competitor media.

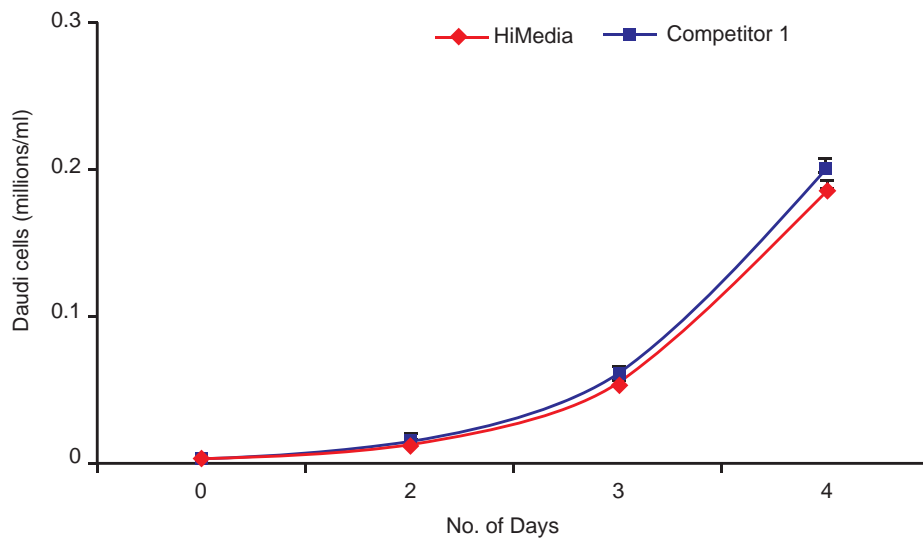


Fig 1.2: Growth curve for Daudi cell line.

Daudi cells were seeded at 0.1×10^6 cells/ml in triplicate in a 24 well plate and incubated at 37°C with 5% CO₂ and 95% air. Samples were taken daily after two days and evaluated for cell density and morphology. Cell growth and morphology of HiMedia was found comparable to the competitor media.

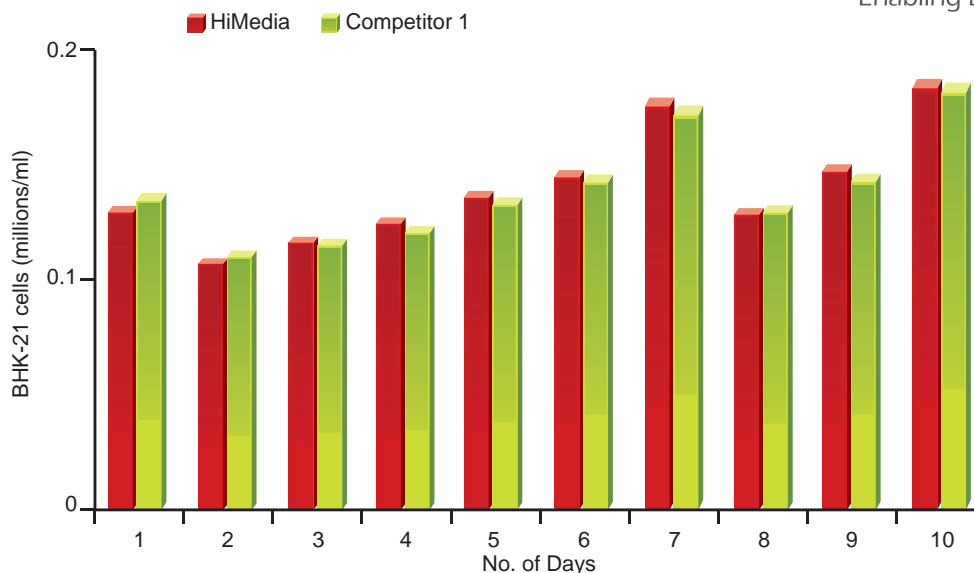


Fig 1.4 Serial subculture of BHK-21 cells

BHK-21 cells were seeded at 0.04×10^6 cells/ml and incubated at 37°C with 5% CO_2 and 95% air. Cells were passaged every 24 hours and evaluated for cell density and morphology. Cell growth and morphology of HiMedia media was found comparable to the competitor media.

Ordering Information

Powder Media

Media Specifications		Codes
RPMI-1640	w/ L Glutamine w/o Sodium bicarbonate	AT028
RPMI-1640	w/o L-Glutamine and Sodium bicarbonate	AT028A
RPMI-1640	w/ L Glutamine w/o Folic acid and Sodium bicarbonate	AT028F
RPMI-1640	w/o L Glutamine, Phenol Red and Sodium bicarbonate	AT112A
RPMI-1640	w/ L-Glutamine w/o Phenol Red and Sodium bicarbonate	AT120
RPMI-1640	w/ L Glutamine and 25mM HEPES buffer w/o Sodium bicarbonate	AT060
RPMI-1640	w/ 25mM HEPES buffer w/o L-Glutamine and Sodium bicarbonate	AT060A
RPMI-1640	w/ L-Glutamine w/o Glucose and Sodium bicarbonate	AT150
RPMI-1640	w/ L Glutamine, Phenol red, 0.2% Glucose and 0.165 moles per litre MOPS buffer w/o Sodium bicarbonate	AT180
RPMI-1640	w/ L Glutamine & 25mM HEPES buffer w/o L-Arginine and Sodium bicarbonate	AT129
RPMI-1640	w/ 25mM HEPES buffer w/o L- Glutamine, Phenol Red and Sodium bicarbonate	AT113A
RPMI-1640	w/o L- Glutamine and Sodium bicarbonate (Modified for Autoclaving)	AT126A
RPMI-1640	w/o Folic Acid, L-Glutamine and Sodium bicarbonate	AT161A
RPMI-1640	w/ 25mM HEPES buffer and Sodium pyruvate w/o L-Glutamine and Sodium bicarbonate	AT157A
RPMI-1640	w/ L-Glutamine, Sodium pyruvate, 4.5gms Glucose per litre and 10mM HEPES buffer w/o Sodium bicarbonate	AT162



Ordering Information

Media Specifications		Codes
RPMI-1640	w/ 2mM L-Glutamine, 1mM Sodium pyruvate, 4.5 gms Glucose per liter and 10mM HEPES buffer w/o Phenol red and Sodium bicarbonate	AT171
RPMI-1640	w/ L-Glutamine w/o Folic acid, Phenol red & Sodium bicarbonate	AT181
Liquid Media		
RPMI-1640	w/ Sodium bicarbonate w/o L-Glutamine	AL028
RPMI-1640	w/ L-Glutamine and Sodium bicarbonate	AL028A
RPMI-1640	w/ Sodium bicarbonate w/o L Glutamine, Hybridoma tested	AL028B
RPMI-1640	w/ Sodium bicarbonate w/o Folic acid and L-Glutamine	AL028F
RPMI-1640	w/25mM HEPES Buffer and Sodium bicarbonate w/o L-Glutamine	AL060
RPMI-1640	w/ L-Glutamine, 25mM HEPES buffer and Sodium bicarbonate	AL060A
RPMI-1640	w/ L-Glutamine and Sodium bicarbonate w/o Phenol red	AL120A
RPMI-1640	w/ 1mM Sodium pyruvate, 2mM L-Glutamine, 4.5gms Glucose per litre, 10mM HEPES and 2gms per liter Sodium bicarbonate	AL162A
RPMI-1640	w/ 1mM Sodium pyruvate, 2mM L-Glutamine, 4.5gms Glucose per litre, 10mM HEPES and 1.5gms per liter Sodium bicarbonate	AL162S❖
RPMI-1640	w/ 25mM HEPES buffer, Sodium bicarbonate and Sodium pyruvate w/o L Glutamine	AL157
RPMI-1640	w/ 1mM Sodium pyruvate, 2mM L-Glutamine, 4.5gms Glucose per litre, 10mM HEPES buffer and Sodium bicarbonate w/o Phenol red	AL171A
RPMI-1640	w/L-Glutamine, 2gms Glucose per liter, 0.165 moles per liter MOPS buffer and Sodium bicarbonate	AL180A
RPMI-1640, 10X	w/o L Glutamine and Sodium bicarbonate	AL102
RPMI-1640	w/ L-Glutamine and Sodium bicarbonate w/o Folic acid and Phenol red	AL181A
RPMI-1640	w/ L-Glutamine and 20mM HEPES Buffer w/o Sodium bicarbonate	AL197A
RPMI-1640, Dutch Modification	w/ 20mM HEPES Buffer and 1 gm per litre Sodium bicarbonate w/o L-Glutamine	AL198
RPMI-1640	w/ L-Glutamine, 2gms per litre Glucose, 0.165moles per litre and MOPS buffer w/o Sodium bicarbonate	AL200A
RPMI-1640	w/ 1mM Sodium pyruvate, 2mM L-Glutamine, 4.5gms Glucose per litre and 1.5gms per litre Sodium bicarbonate w/o HEPES buffer	AL199S
RPMI-1640	w/ 25mM HEPES buffer, L-Glutamine and 2.2 gms per litre Sodium bicarbonate	AL201A
HiKaryoXL™ RPMI Medium	w/ L-Glutamine, FBS, PHA-M, Penicillin, Streptomycin and Sodium bicarbonate 1X Liquid Karyotyping Medium	AL165A
HiKaryoXL™ RPMI Medium	w/ L-Glutamine, FBS, Penicillin, Streptomycin and Sodium bicarbonate w/o PHA-M 1X Liquid Karyotyping Medium	AL173A
HiGlutaXL™ RPMI-1640	w/ L-Alanyl-L-Glutamine and Sodium bicarbonate	AL028G
HiGlutaXL™ RPMI-1640	w/ L-Alanyl-L-Glutamine, HEPES buffer, 60mg per litre Penicillin, 100mg per litre Streptomycin, 15%FBS and Sodium bicarbonate	AL751G
HiGlutaXL™ RPMI-1640	w/ L-Alanyl-L-Glutamine, 25mM HEPES Buffer and Sodium bicarbonate	AL060G
LoSera™ RPMI-1640	w/ Sodium bicarbonate w/o L-Glutamine	RSL011
LoSera™ RPMI-1640	w/ L-Alanyl-L-Glutamine and Sodium bicarbonat	RSL011G
LoSera™ RPMI-1640	w/ HEPES Buffer and Sodium bicarbonate w/o L-Glutamine	RSL012

❖ As per ATCC composition • Powder media available in 1L, 5L & 20L packing. • Liquid media available in 5X100ML, 2X500ML, 6X500ML and 18X500ML
• Bulk packing available on request. • Customised Media available on request.



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