

Doc. No.	Rev	Effective Date
PI9	2	08JUL2024

## RPMI-1640 (Medium) Modified

RPMI-1640 medium has been used for the culture of human normal and neoplastic leukocytes. RPMI-1640 when properly supplemented, has demonstrated wide applicability for supporting growth of many types of cell cultures, including fresh human lymphocytes in the 72-hour phytohemagglutinin (PHA) stimulation assay.

Complete Certificate of Analysis available for each production lot.

### Product Formulation

COMPONENT	g/L
<b>Inorganic Salts</b>	
Ca(NO <sub>3</sub> ) <sub>2</sub> • 4H <sub>2</sub> O	0.1
MgSO <sub>4</sub> (anhydrous)	0.04884
KCl	0.4
NaHCO <sub>3</sub>	2
NaCl	6
Na <sub>2</sub> HPO <sub>4</sub> (Anhydrous)	0.8
<b>Amino Acids</b>	
L-Arginine • HCl	0.2
L-Asparagine • H <sub>2</sub> O	0.05
L-Aspartic Acid	0.02
L-Glutamic Acid	0.02
L-Glutamine	0.3
Glycine	0.01
L-Histidine • HCl • H <sub>2</sub> O	0.015
Hydroxy-L-Proline	0.02
L-Isoleucine	0.05
L-Leucine	0.05
L-Lysine • HCl	0.04
L-Phenylalanine	0.015
L-Proline	0.02
L-Serine	0.03
L-Threonine	0.02
L-Tryptophan	0.005
L-Tyrosine • 2Na • 2H <sub>2</sub> O	0.02883
L-Valine	0.02
<b>Vitamins</b>	

### QUALITY - TRACEABILITY - INTEGRITY

#### Life Science Production

The Science Centre, 1 Blaydon Road, Sandy, Bedfordshire, SG19 1RZ

Tel: +44 (0) 1234 889180 Email: sales@lifesciencegroup.co.uk Web: www.lifesciencegroup.co.uk

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Biotin	0.0002
Choline Chloride	0.003
Folic Acid	0.001
myo-Inositol	0.035
Niacinamide	0.001
p-Aminobenzoic Acid	0.001
D-Pantothenic Acid • ½Ca	0.00025
Pyridoxine • HCl	0.001
Riboflavin	0.0002
Thiamine • HCl	0.001
Vitamin B12	0.000005
<b>Other</b>	
D-Glucose	2
Glutathione (reduced)	0.001
Phenol Red • Na	0.0053

## Product Presentation

Product Code	Product Description	Size
LSGRPMI-001A	RPMI 1640 with L-Glutamine, phenol red, NaCH <sub>3</sub> O and D-Glucose	500ml

## Storage

Storage at ambient temperatures or at 2-8°C

**For Research use only. Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or *in vitro* procedures.**

## Support

To learn more, contact us by phone at +44 1234 889180 or email [sales@lifesciencegroup.co.uk](mailto:sales@lifesciencegroup.co.uk)

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