

Product Description

RPMI is a widely adopted medium for suspension and adherent mammalian cells, especially hematopoietic and hybridoma cultures. Its nutrient profile, buffering, and glutathione content promote healthy proliferation in immunology and oncology studies. RPMI 1640 is a standard choice for serum-supplemented systems, supporting consistent performance across diverse experimental needs.

Specifications

Product	RPMI	RPMI w/ HEPES
SKU (Powder)	65180	-
SKU (Liquid)	65135	65130
Appearance	Transparent Liquid	Transparent Liquid
pH	7.0 - 7.4	7.0 - 7.4
Osmolality (mOsm/kg)	265 - 300	270 - 310
Sterility	Pass	Pass
Endotoxin (EU/ml)	<2	<2

Packaging

Format	Sizes
Liquid	Bottle (500ml & 1L) Bags (200L)
Powder	100g, 20 KG

*Additional sizes available upon request
Inquire for disposable bag information including material of construction, designs and L&E*

Shelf Life

A 12-month shelf life has been assigned for cell culture media based on alignment with industry-standard shelf designations for classical media formulations of similar composition. Internal stability studies are being conducted to confirm shelf life for Liquid and DPM.

Storage

Dry powder and liquid media should be stored at 2-8 °C, protected from the light.
For Research Use or Further Manufacturing Only

RPMI Base Formula

No.	Component	CAS No.	g/L (+/- 2%)
1	GLYCINE	56-40-6	0.01
2	L-ARGININE	74-79-3	0.2
3	L-ASPARAGINE (ANHY)	70-47-3	0.05
4	L-ASPARTIC ACID	56-84-8	0.02
5	L-CYSTINE-2HCL	30925-07-06	0.065
6	L-GLUTAMIC ACID	56-86-0	0.02
7	L-HISTIDINE	71-00-1	0.015
8	HYDROXY-L-PROLINE	51-35-4	0.02
9	L-ISOLEUCINE	73-32-5	0.05
10	L-LEUCINE	61-90-5	0.05
11	L-LYSINE-HCL	657-27-2	0.04
12	L-METHIONINE	63-68-3	0.015
13	L-PHENYLALANINE	63-91-2	0.015
14	L-PROLINE	147-85-3	0.02
15	L-SERINE	56-45-1	0.03
16	L-THREONINE	72-19-5	0.02
17	L-TRYPTOPHAN	73-22-3	0.005
18	L-TYROSINE-2NA-2H2O	122666-87-9	0.029
19	L-VALINE	72-18-4	0.02
20	D-BIOTIN	58-85-5	0.0002
21	CHOLINE CHLORIDE	67-48-1	0.003
22	CALCIUM D-PANTOTHENATE	0137-08-06	0.00025
23	FOLIC ACID	59-30-3	0.001
24	NIACINAMIDE (NICOTINAMIDE)	98-92-0	0.001
25	PARA-AMINOBENZOIC ACID (PABA)	150-13-0	0.001
26	PYRIDOXINE-HCL	58-56-0	0.001
27	RIBOFLAVIN	83-88-5	0.0002
28	THIAMINE-HCL	67-03-8	0.001
29	VITAMIN B12 (CYANOCOBALAMIN)	68-19-9	0.000005
30	MYO-INOSITOL	87-89-8	0.035
31	CALCIUM-(NO3)2-4H2O	13477-34-4	0.1
32	MAGNESIUM SULFATE (ANHY)	7487-88-9	0.04884
33	POTASSIUM CHLORIDE	7447-40-7	0.4
34	SODIUM BICARBONATE	144-55-8	2
35	SODIUM CHLORIDE	7647-14-5	6
36	SODIUM PHOSPHATE DIBASIC (ANHY)	7558-79-4	0.8
37	GLUCOSE	50-99-7	2
38	L-GLUTATHIONE	70-18-8	0.001
39	PHENOL RED-NA	34487-61-1	0.005
	Total		12.09

Contact info@phb1.com to request a sample or quote



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Proliant Health & Biologicals

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