

RPMI 1640

with L-glutamine

High quality cell culture performance

RPMI 1640 Medium was developed for culturing human leukocytes and other blood cells and is now used for a range of mammalian cells in suspension and monolayer cell culture. Captivate Bio's RPMI 1640 is manufactured with L-glutamine and without HEPES. RPMI 1640 will require a serum supplement like FBS or platelet lysate as this medium does not contain proteins, lipids, or growth factors.

This RPMI is modified as follows:

With

- L-glutamine
- Phenol Red

Without

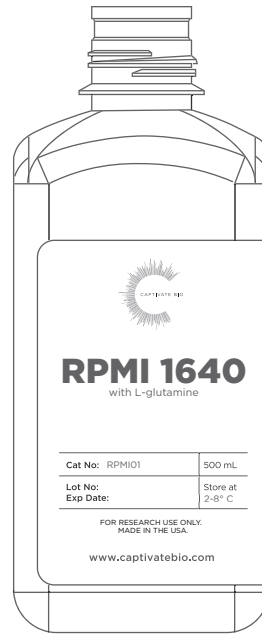
- HEPES

Storage and handling

We recommend that RPMI 1640 Medium be stored at 2-8°C and protected from light. Always use aseptic techniques when handling and supplementing cell culture media.

Product Information	CAT NO	QTY
RPMI 1640 Medium	RPMI01	500 mL
	RPMI01CS	12 x 500 mL

* Custom formulations and bulk packaging available.



High Quality Medium



Made in the USA



Reliable Formulation



Customizable

Quality Specifications

Intended use	Mammalian cell culture, suspension cell lines, human normal and neoplastic leukocytes, including unfixed specimens for use in flow cytometry, FISH, molecular and cytogenetics tests.		
Glutamine	L-glutamine	HEPES Buffer	No HEPES
Phenol Red Indicator	Phenol Red	Shelf-Life	12 months from date of manufacture
pH	7.0 - 7.4	Storage	2-8° C protect from light
Osmolality	266-294 mOsm/kg	Sterility	Pass

For more information, visit captivatebio.com, email orders@captivatebio.com, or contact us at (617) 607-4017.

RPMI 1640 with L-Glutamine

Catalog Number(s): RPMI01, RPMI01CS

Components	Molecular Weight	mg/L	mM
Amino Acids			
Glycine	75	10	0.133333
L-Arginine-HCL	210.66	241.86	1.148106
L-Asparagine-H2O	152.12	56.82	0.373521
L-Aspartic acid	133	20	0.150376
L-Cystine	240.3	49.87	0.207532
L-Glutamic Acid	147	20	0.136054
L-Glutamine	146	292	2.000000
L-Histidine	155	20.27	0.130774
L-Hydroxyproline	131	20	0.152672
L-Isoleucine	131	50	0.381679
L-Leucine	131	50	0.381679
L-Lysine hydrochloride	183	40	0.218579
L-Methionine	149	15	0.100671
L-Phenylalanine	165	15	0.090909
L-Proline	115	20	0.173913
L-Serine	105	30	0.285714
L-Threonine	119	20	0.168067
L-Tryptophan	204	5	0.024510
L-Tyrosine disodium salt dihydrate	261	29	0.111111
L-Valine	117	20	0.170940
Vitamins			
Biotin	244	0.2	0.000820
Choline chloride	140	3	0.021429
Calcium D-pantothenate	476.5	0.253	0.000531
Folic Acid	441	1	0.002268
Niacinamide	122	1	0.008197
Para-Aminobenzoic Acid	137	1	0.007299
Pyridoxine hydrochloride	206	1	0.004854
Riboflavin	376	0.2	0.000532
Thiamine hydrochloride	337	1	0.002967
Vitamin B12	1355	0.005	0.000004
i-Inositol	180	35	0.194444

Components	Molecular Weight	mg/L	mM
Inorganic Salts			
Calcium nitrate (Ca(NO ₃) ₂ 4H ₂ O)	236	100	0.423729
Magnesium Sulfate (MgSO ₄) (anhyd.)	120	48.84	0.407000
Potassium Chloride (KCl)	75	400	5.333334
Sodium Bicarbonate (NaHCO ₃)	84	2000	23.809525
Sodium Chloride (NaCl)	58	6000	103.448270
Sodium Phosphate dibasic (Na ₂ HPO ₄) anhydrous	142	800	5.633803
Other Components			
D-Glucose (Dextrose)	180	2000	11.111111
Glutathione (reduced)	307	1	0.003257
Phenol Red	376.4	5	0.013284