

**RPMI 1640**  
w/ 25mM Hepes w/ stable Glutamine**CAT N°** : L0496**Theoretical pH** : 7.3 ± 0.3**Osmolality** : 294 mOsm/kg ± 10 %**Colour** : Clear orange solution**Storage conditions** : +2°C to +8°C in the dark**Shelf life** : 24 months**Sterility tests :**

- Bacteria in aerobic and anaerobic conditions
- Fungi and yeasts

**Endotoxin** : < 1 EU/ml**Cell growth test :**

Medium tested for the ability to support SP2/0-Ag14 cell growth.

**Composition** : Displayed on website and in catalogue; also available on request.**Recommended use :**

- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store product in an area protected from light (not necessary for saline solutions).
- Manipulate the product in aseptic conditions (e.g. : under laminar air flow)
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. : gloves, mask, hygiene cap, overall...)

The product is intended to be used in vitro, in laboratory only. Do not use it in therapy, human or veterinary applications.

**Applications :**

RPMI 1640 medium has a broad spectrum of mammalian and hybridoma cell applications. It was developed by Moore and his co-workers at Roswell Park Memorial Institute in 1966 for the growth of human leukemia cells in monolayer or suspension cultures. It is typically supplemented with serum or serum substitutes. This RPMI 1640 contains a dipeptide derivatives of L-Glutamine which prevent the intramolecular cyclization reaction associated with solutions of L-Glutamine. The dipeptide derivatives are metabolized within the cells to yield L-Glutamine plus the second amino acid. This results in more consistent delivery of L-Glutamine to your cells and avoid toxic build up of ammonia in your cell cultures. This feature can be especially important for ammonia-sensitive cell lines.

**Uses :**

Supplements, such as antibiotics, should be added as sterile supplements to the medium. Storage conditions and shelf-life of supplemented product will be affected by the nature of the supplements.

**Signs of Deterioration :**

Medium should be clear and free of particulate and flocculent material. Do not use if medium is cloudy or contains precipitate.

Other evidence of deterioration may include colour change or degradation of physical or performance characteristics.

**Product code : L0496**

**Product name : RPMI 1640 w/ stable Glutamine w/ 25 mM Hepes**

CAS Number	Components	Quantity in g/l
13477-34-4	Calcium Nitrate Tetrahydrate	0.10000000
7487-88-9	Magnesium Sulfate Anhydrous	0.04884000
7447-40-7	Potassium Chloride	0.40000000
7647-14-5	Sodium Chloride	6.00000000
7558-79-4	Sodium Phosphate Dibasic Anhydrous	0.80000000
50-99-7	D-Glucose Anhydrous	2.00000000
56-40-6	Glycine	0.01000000
39537-23-0	L-Alanyl-L-Glutamine	0.44600000
74-79-3	L-Arginine Free Base	0.20000000
70-47-3	L-Asparagine Anhydrous	0.05000000
56-84-8	L-Aspartic acid	0.02000000
30925-07-6	L-Cystine Dihydrochloride	0.06520000
56-86-0	L-Glutamic Acid	0.02000000
71-00-1	L-Histidine	0.01500000
51-35-4	L-Hydroxy-L-Proline	0.02000000
73-32-5	L-Isoleucine	0.05000000
61-90-5	L-Leucine	0.05000000
657-27-2	L-Lysine Monohydrochloride	0.04000000
63-68-3	L-Methionine	0.01500000
63-91-2	L-Phenylalanine	0.01500000
147-85-3	L-Proline	0.02000000
56-45-1	L-Serine	0.03000000
72-19-5	L-Threonine	0.02000000
73-22-3	L-Tryptophan	0.00500000
69847-45-6	L-Tyrosine Disodium Salt Dihydrate	0.02883000
72-18-4	L-Valine	0.02000000
67-48-1	Choline Chloride	0.00300000
58-85-5	D-Biotin	0.00020000
137-08-6	D-Ca Pantothenate	0.00025000
59-30-3	Folic Acid	0.00100000
87-89-8	Myo-Inositol	0.03500000
98-92-0	Nicotinamide (Nicotinic acid amide)	0.00100000
150-13-0	P-Aminobenzoic Acid (PABA)	0.00100000
58-56-0	Pyridoxine Hydrochloride	0.00100000
83-88-5	Riboflavin	0.00020000
67-03-8	Thiamine Hydrochloride	0.00100000
68-19-9	Vitamine B12	0.00000500
7365-45-9	Hepes Free Acid	5.96000000
70-18-8	L-Glutathione Reduced	0.00100000
34487-61-1	Phenol Red Sodium Salt	0.00530000
144-55-8	Sodium Bicarbonate	2.00000000
WATER		981.50117500