

## CMRL

### w/L-Glutamine w/o Sodium Bicarbonate

**CAT N°** : P0058

**Theoretical pH** :  $3.3 \pm 0.3$

**Osmolality** : 241 mOsm/kg  $\pm 10\%$

**Colour** : yellow -orange powder , yellow in liquid

**Storage conditions** : +2°C to +8°C

**Shelf life** : 24 months

**Endotoxin** : < 1 EU/ml

**Composition** : Available on request.

#### Recommended use :

- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store the product in a dry area
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. : gloves, mask, hygiene cap, overall...)
- Protect the product from any form of humidity
- Use, in one time, after opening, the entire quantity of product of the container, without making a concentrated solution (to avoid the formation of precipitates). If it is not possible, close the container immediately after sampling the quantity of powder required.
- Supplements can be added prior to sterile filtration of the medium or aseptically introduced to sterile medium (respect the final concentration of the media). The nature of the supplements may affect storage conditions and shelf life of the medium.

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

#### Preparation instructions :

- 1) Measure out 90% of final required volume of water. Water temperature should be 15-20°C.
- 2) While gently stirring the water, add the powdered medium (9.82 g/litre). Stir until dissolved. Do not heat.
- 3) Rinse original package with a small amount of water to remove all traces of powder. Add to solution in step 2.
- 4) To the solution in step 3, add 2.2g of sodium bicarbonate (CAT N° : P2060) or 29.3ml of sodium bicarbonate solution (7.5% w/v) (CAT N° : L0680) for each litre of final volume of medium being prepared. Stir until dissolved.
- 5) While stirring, adjust the pH of the medium to 0.1-0.3 pH units below the desired pH since it may rise during filtration. The use of 1 N HCl or 1 N NaOH is recommended.
- 6) Add additional water to bring the solution to final volume.
- 7) Sterilize immediately by filtration using a membrane with a porosity of 0.22 microns.
- 8) Aseptically dispense medium into sterile container.

#### Indications of deterioration :

Dry powder medium should be free flowing. Do not use if powder caked. Prepared medium should be cleared of particulates and flocculent material. Do not use if liquid medium is cloudy or contains precipitate. Other evidence of deterioration may include colour change or degradation of physical or performance characteristics.

**Product code : P0058**

**Product name : CMRL w/ L-Glutamine w/o Sodium Bicarbonate**

CAS Number	Components	Quantity in g/l
10043-52-4	Calcium Chloride Anhydrous	0.20000000
7487-88-9	Magnesium Sulfate Anhydrous	0.09769000
7447-40-7	Potassium Chloride	0.40000000
127-09-3	Sodium Acetate Anhydrous	0.05000000
7647-14-5	Sodium Chloride	6.80000000
7558-80-7	Sodium Phosphate Monobasic Anhydrous	0.12200000
50-99-7	D-Glucose Anhydrous	1.00000000
56-40-6	Glycine	0.05000000
56-41-7	L-Alanine	0.02500000
74-79-3	L-Arginine Free Base	0.05787000
56-84-8	L-Aspartic acid	0.03000000
7048-04-6	L-Cysteine Monohydrochloride Monohydrate	0.26000000
30925-07-6	L-Cystine Dihydrochloride	0.02000000
56-86-0	L-Glutamic Acid	0.07500000
56-85-9	L-Glutamine	0.10000000
5934-29-2	L-Histidine Monohydrochloride Monohydrate	0.02000000
51-35-4	L-Hydroxy-L-Proline	0.01000000
73-32-5	L-Isoleucine	0.02000000
61-90-5	L-Leucine	0.06000000
657-27-2	L-Lysine Monohydrochloride	0.07000000
63-68-3	L-Methionine	0.01500000
63-91-2	L-Phenylalanine	0.02500000
147-85-3	L-Proline	0.04000000
56-45-1	L-Serine	0.02500000
72-19-5	L-Threonine	0.03000000
73-22-3	L-Tryptophan	0.01000000
60-18-4	L-Tyrosine	0.04000000
72-18-4	L-Valine	0.02500000
50-81-7	Ascorbic Acid	0.05000000
53-84-9	B-NAD	0.00700000
1184-16-3	B-NADP + Na	0.00100000
67-48-1	Choline Chloride	0.00050000
154-87-0	Coccarboxylase	0.00100000
58-85-5	D-Biotin	0.00001000
137-08-6	D-Ca Pantothenate	0.00001000
146-14-5	Flavin Adenine Dinucleotide Disodium Salt	0.00010600
59-30-3	Folic Acid	0.00001000
87-89-8	Myo-Inositol	0.00005000
98-92-0	Nicotinamide (Nicotinic acid amide)	0.00002500
59-67-6	Nicotinic Acid	0.00002500
150-13-0	P-Aminobenzoic Acid (PABA)	0.00005000
65-22-5	Pyridoxal Hydrochloride	0.00002500
58-56-0	Pyridoxine Hydrochloride	0.00002500
83-88-5	Riboflavin	0.00001000

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CAS Number	Components	Quantity in g/l
67-03-8	Thiamine Hydrochloride	0.00001000
3992-42-5	2'Deoxyctidine Monohydrochloride	0.01160000
961-07-9	2'Deoxyguanosine monohydrate	0.01000000
838-07-3	5-Methyl-2'-deoxycytidine hydrochloride	0.00010000
16373-93-6	2'Deoxyadenosine monohydrate	0.01071480
57-88-5	Cholesterol	0.00020000
55672-92-9	Coenzyme A.Na	0.00250000
14984-34-0	D-Glucuronic Acid + Na	0.00388000
70-18-8	L-Glutathione Reduced	0.01000000
34487-61-1	Phenol Red Sodium Salt	0.02124000
50-89-5	Thymidine	0.01000000
9005-65-6 2	Tween 80	0.00500000
19817-92-6	Uridine-5-triphosphate + Na	0.00100000
WATER		990.17634920