

Medium 199
w/ Hank's Salts w/ L-Glutamine**CAT N°** : L0330**Theoretical pH** : 7.3 ± 0.3**Osmolality** : 288 mOsm/kg ± 10%**Colour** : Red, clear solution**Storage conditions** : +2°C to +8°C, protected from light.**Shelf life** : 18 months**Sterility tests** :

- Bacteria in aerobic and anaerobic conditions
- Fungi and yeasts

Endotoxin : < 1 EU/ml**Composition** : Displayed on website, 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...)
- Sterile supplements (serum,...) should be aseptically added to sterile medium. 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.

Applications :

A long term cultivation of cells required addition of a serum. When properly supplemented, Medium 199 has broad species applicability, particularly for cultivation of non-transformed cells. It is widely used in virology, vaccine production and in vitro cultivation of primary explants of mouse pancreatic epithelial and rat lens tissues.

Uses :

BioWest recommend the addition of 10% of Fetal Bovine Serum in the medium.

Signs of Deterioration :

The medium should be clear and free of particulate and flocculent material.

Do not use if the medium is cloudy or contains precipitate.

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

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CAS Number	Components	Quantity in g/l
10035-04-8	Calcium Chloride Dihydrate	0.18500000
7487-88-9	Magnesium Sulfate Anhydrous	0.09767000
7782-61-8	Ferric Nitrate Nonahydrate	0.00072000
7447-40-7	Potassium Chloride	0.40000000
7778-77-0	Potassium Phosphate Monobasic Anhydrous	0.06000000
127-09-3	Sodium Acetate Anhydrous	0.05000000
7647-14-5	Sodium Chloride	8.00000000
7558-79-4	Sodium Phosphate Dibasic Anhydrous	0.04788000
50-99-7	D-Glucose Anhydrous	1.00000000
56-40-6	Glycine	0.05000000
56-41-7	L-Alanine	0.05000000
1119-34-2	L-Arginine Monohydrochloride	0.07000000
56-84-8	L-Aspartic acid	0.06000000
7048-04-6	L-Cysteine Monohydrochloride Monohydrate	0.00011000
30925-07-6	L-Cystine Dihydrochloride	0.02600000
56-85-9	L-Glutamine	0.10000000
56-86-0	L-Glutamic Acid	0.13360000
5934-29-2	L-Histidine Monohydrochloride Monohydrate	0.02188000
51-35-4	L-Hydroxy-L-Proline	0.01000000
73-32-5	L-Isoleucine	0.04000000
61-90-5	L-Leucine	0.12000000
657-27-2	L-Lysine Monohydrochloride	0.07000000
63-68-3	L-Methionine	0.03000000
63-91-2	L-Phenylalanine	0.05000000
147-85-3	L-Proline	0.04000000
56-45-1	L-Serine	0.05000000
72-19-5	L-Threonine	0.06000000
73-22-3	L-Tryptophan	0.02000000
69847-45-6	L-Tyrosine Disodium Salt Dihydrate	0.05766000
72-18-4	L-Valine	0.05000000
50-81-7	Ascorbic Acid	0.00005660
67-48-1	Choline Chloride	0.00050000
58-85-5	D-Biotin	0.00001000
137-08-6	D-Ca Pantothenate	0.00001000
50-14-6	Ergocalciferol	0.00010000
59-30-3	Folic Acid	0.00001000
130-37-0	Menadione Sodium Bisulfite	0.00001600
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

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CAS Number	Components	Quantity in g/l
83-88-5	Riboflavin	0.00001000
67-03-8	Thiamine Hydrochloride	0.00001000
127-47-9	Vitamine A Acetate	0.00014000
60934-46-5	DL-Alpha-Tocopherol Phosphate Disodium Salt	0.00001000
321-30-2	Adenine Sulfate	0.01000000
18422-05-4	Adenosine 5'Monophosphate	0.00023850
51963-61-2	Adenosine-5-Triphosphate x 2Na	0.00100000
57-88-5	Cholesterol	0.00020000
50-69-1	D-Ribose	0.00050000
73-40-5	Guanine	0.00030000
68-94-0	Hypoxanthine	0.00030000
70-18-8	L-Glutathione Reduced	0.00005000
34487-61-1	Phenol Red Sodium Salt	0.02130000
65-71-4	Thymine	0.00030000
9005-65-6 2	Tween 80	0.02000000
66-22-8	Uracil	0.00030000
1196-43-6	Xanthine + Na	0.00034400
533-67-5	2 Deoxy-D-ribose	0.00050000
144-55-8	Sodium Bicarbonate	0.35000000
WATER		988.64307490