

# HyClone classical media

## FORMULATION

### RPMI 1640 Medium Liquid media

Component description	Product code SH30027, SH30313		Product code SH30091		Product code SH30096	
	mg/L	mmol/L	mg/L	mmol/L	mg/L	mmol/L
<b>Inorganic salts</b>						
Calcium-(NO <sub>3</sub> ) <sub>2</sub> -4H <sub>2</sub> O	100	0.4235	100	0.4235	100	0.4235
Potassium chloride	400	5.3655	400	5.3655	400	5.3655
Magnesium sulfate (anhydrous)	48.84	0.4056	48.84	0.4056	48.84	0.4056
Sodium chloride	6000	102.6694	6000	102.6694	6000	102.6694
Sodium phosphate dibasic (anhydrous)	800	5.6354	800	5.6354	800	5.6354
<b>Amino acids</b>						
L-Arginine	200	1.1481	200	1.1481	200	1.1481
L-Asparagine (anhydrous)	50	0.3784	50	0.3784	50	0.3784
L-Aspartic acid	20	0.1503	20	0.1503	20	0.1503
L-Cystine-2HCl	65.15	0.208	65.15	0.208	65.15	0.208
L-Glutamic acid	20	0.1359	20	0.1359	20	0.1359
L-Glutamine	300	2.0527	300	2.0527	0	0
Glycine	10	0.1332	10	0.1332	10	0.1332
L-Histidine FB	15	0.0967	15	0.0967	15	0.0967
Hydroxy-L-proline	20	0.1525	20	0.1525	20	0.1525
L-Isoleucine	50	0.3812	50	0.3812	50	0.3812
L-Leucine	50	0.3812	50	0.3812	50	0.3812
L-Lysine-HCl	40	0.219	40	0.219	40	0.219
L-Methionine	15	0.1005	15	0.1005	15	0.1005
L-Phenylalanine	15	0.0908	15	0.0908	15	0.0908
L-Proline	20	0.1737	20	0.1737	20	0.1737
L-Serine	30	0.2855	30	0.2855	30	0.2855
L-Threonine	20	0.1679	20	0.1679	20	0.1679
L-Tryptophan	5	0.0245	5	0.0245	5	0.0245
L-Tyrosine-2Na-2H <sub>2</sub> O	28.83	0.1104	28.83	0.1104	28.83	0.1104
L-Valine	20	0.1707	20	0.1707	20	0.1707

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## Liquid media

Component description	Product code SH30027, SH30313		Product code SH30091		Product code SH30096	
	mg/L	mmol/L	mg/L	mmol/L	mg/L	mmol/L
<b>Vitamins</b>						
D-Biotin	0.2	0.0008	0.2	0.0008	0.2	0.0008
Calcium D-pantothenate	0.25	0.0005	0.25	0.0005	0.25	0.0005
Choline chloride	3	0.0215	3	0.0215	3	0.0215
Folic acid	1	0.0023	1	0.0023	1	0.0023
Myo-inositol	35	0.1943	35	0.1943	35	0.1943
Niacinamide	1	0.0082	1	0.0082	1	0.0082
Pyridoxine-HCl	1	0.0049	1	0.0049	1	0.0049
Riboflavin	0.2	0.0005	0.2	0.0005	0.2	0.0005
Thiamine-HCl	1	0.003	1	0.003	1	0.003
Vitamin B12	0.005	0.000004	0.005	0.000004	0.005	0.000004
<b>Other</b>						
D-Glucose (anhydrous)	2000	11.1012	2000	11.1012	2000	11.1012
para-Aminobenzoic acid	1	0.0073	1	0.0073	1	0.0073
L-Glutathione (reduced)	1	0.0033	1	0.0033	1	0.0033
Phenol red-Na	5.3	0.0141	5.3	0.0141	5.3	0.0141
HEPES	0	0	0	0	0	0
Sodium bicarbonate	2000	23.8067	2000	23.8067	2000	23.8067

# RPMI 1640 Medium

## Liquid media

Component description	Product code SH30203		Product code SH30255		Product code SH30605	
	mg/L	mmol/L	mg/L	mmol/L	mg/L	mmol/L
<b>Inorganic salts</b>						
Calcium-(NO <sub>3</sub> ) <sub>2</sub> -4H <sub>2</sub> O	100	0.4235	100	0.4235	100	0.4235
Potassium chloride	400	5.3655	400	5.3655	400	5.3655
Magnesium sulfate (anhydrous)	48.84	0.4056	48.84	0.4056	48.84	0.4056
Sodium chloride	6000	102.6694	6000	102.6694	6000	102.6694
Sodium phosphate dibasic (anhydrous)	800	5.6354	800	5.6354	800	5.6354
<b>Amino acids</b>						
L-Arginine	200	1.1481	200	1.1481	200	1.1481
L-Asparagine (anhydrous)	50	0.3784	50	0.3784	50	0.3784
L-Aspartic acid	20	0.1503	20	0.1503	20	0.1503
L-Cystine-2HCl	65.15	0.208	65.15	0.208	65.15	0.208
L-Glutamic acid	20	0.1359	20	0.1359	20	0.1359
L-Glutamine	0	0	300	2.0527	0	0
Glycine	10	0.1332	10	0.1332	10	0.1332
L-Histidine FB	15	0.0967	15	0.0967	15	0.0967
Hydroxy-L-proline	20	0.1525	20	0.1525	20	0.1525
L-Isoleucine	50	0.3812	50	0.3812	50	0.3812
L-Leucine	50	0.3812	50	0.3812	50	0.3812
L-Lysine-HCl	40	0.219	40	0.219	40	0.219
L-Methionine	15	0.1005	15	0.1005	15	0.1005
L-Phenylalanine	15	0.0908	15	0.0908	15	0.0908
L-Proline	20	0.1737	20	0.1737	20	0.1737
L-Serine	30	0.2855	30	0.2855	30	0.2855
L-Threonine	20	0.1679	20	0.1679	20	0.1679
L-Tryptophan	5	0.0245	5	0.0245	5	0.0245
L-Tyrosine-2Na-2H <sub>2</sub> O	28.83	0.1104	28.83	0.1104	28.83	0.1104
L-Valine	20	0.1707	20	0.1707	20	0.1707
<b>Vitamins</b>						
D-Biotin	0.2	0.0008	0.2	0.0008	0.2	0.0008
Calcium D-pantothenate	0.25	0.0005	0.25	0.0005	0.25	0.0005
Choline chloride	3	0.0215	3	0.0215	3	0.0215
Folic acid	1	0.0023	1	0.0023	1	0.0023
Myo-inositol	35	0.1943	35	0.1943	35	0.1943
Niacinamide	1	0.0082	1	0.0082	1	0.0082
Pyridoxine-HCl	1	0.0049	1	0.0049	1	0.0049
Riboflavin	0.2	0.0005	0.2	0.0005	0.2	0.0005
Thiamine-HCl	1	0.003	1	0.003	1	0.003
Vitamin B12	0.005	0.000004	0.005	0.000004	0.005	0.000004
<b>Other</b>						
D-Glucose (anhydrous)	2000	11.1012	2000	11.1012	2000	11.1012
para-Aminobenzoic acid	1	0.0073	1	0.0073	1	0.0073
L-Glutathione (reduced)	1	0.0033	1	0.0033	1	0.0033
Phenol red-Na	5.3	0.0141	5.3	0.0141	0	0
HEPES	5958	25.0021	5958	25.0021	0	0
Sodium bicarbonate	2000	23.8067	2000	23.8067	2000	23.8067

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