

The irrigating buffers and salt solutions are sterile physiological balanced solutions intended for use in the maintenance of mammalian cells where a chemically defined, balanced salt solution provides an environment that will maintain the structural and physiological integrity of cells in vitro. They were used for the first steps for preparing parts of organs and during the dissociation process or for isolation of cell suspensions. Further applications are the intermediate steps for cultivation of cells like washing, centrifugation, suspending and counting and also many analytical methods or biochemical treatments. Principally these solutions should be used to keep the cells only for minutes or maximal some hours into suspension. These buffers and solutions are no cell culture media.

They are composed of a Phosphate buffer system, sodium chloride to adjust the osmolarity and perhaps sugar for a short time nutrition and stabilisation of morphology. For applications where Ca^{2+} and Mg^{2+} ions interfere with enzyme activity e.g. Trypsin, use the modified buffers w/o Calcium w/o Magnesium.



Dulbecco's Phosphate Buffered Saline DPBS

>> See composition page 71

Cat N°	Description	Unit/Size
Liquid		
L0615	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
L0625	Dulbecco's Phosphate Buffered Saline w/ Calcium w/ Magnesium <i>State : Liquid Storage : +2/+8°C Life : 48 months</i>	100 ml 500 ml
Powder		
P0750	Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium <i>State : Powder Storage : +20° C Life : 48 months</i>	For 1 L For 5 L For 10 L
10x concentration		
X0515	Dulbecco's Phosphate Buffered Saline 10X w/o Calcium w/o Magnesium <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
X0520	Dulbecco's Phosphate Buffered Saline 10X w/ Calcium w/ Magnesium <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml

Salt Solutions & Salts / Buffers

Product List



Earle's Balanced Salts Solution EBSS

>> See composition page 71

Cat N°	Description	Unit/Size
Liquid		
L0601	Earle's Balanced Salt Solution w/o Calcium w/o Magnesium <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
L0602	Earle's Balanced Salt Solution w/ Calcium w/ Magnesium <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
10x concentration		
X0112	Earle's Balanced Salt Solution 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
X0113	Earle's Balanced Salt Solution 10x w/o Calcium w/o Magnesium w/o Sodium Bicarbonate <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml



Hanks' Balanced Salts Solution HBSS

>> See composition page 71

Cat N°	Description	Unit/Size
Liquid		
L0605	Hanks' Balanced Salts Solution w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
L0606	Hanks' Balanced Salts Solution w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/ Phenol Red <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
L0607	Hanks' Balanced Salts Solution w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
L0608	Hanks' Balanced Salts Solution w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml

Salt Solutions & Salts/ Buffers

Product List

Cat N°	Description	Unit/Size
L0609	Hanks' Balanced Salts Solution w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/ Phenol Red <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
L0611	Hanks' Balanced Salts Solution w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/ Phenol Red <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
L0612	Hanks' Balanced Salts Solution w/ Calcium w/ Magnesium w/ Sodium Bicarbonate w/o Phenol Red <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
Powder		
P0153	Hanks' Balanced Salts w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red <i>State : Powder Storage : +20° C Life : 48 months</i>	For 1 L For 5 L For 10L
P0154	Hanks' Balanced Salts w/ Calcium w/ Magnesium w/o Sodium Bicarbonate <i>State : Powder Storage : +20° C Life : 36 months</i>	For 1 L For 5 L For 10L
10x concentration		
X0507	Hanks' Balanced Salts Solution 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/o Phenol Red <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
X0509	Hanks' Balanced Salts Solution 10X w/ Calcium w/ Magnesium w/o Sodium Bicarbonate w/ Phenol Red <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
X0510	Hanks' Balanced Salts Solution 10X w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/o Phenol Red <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
X0513	Hanks' Balanced Salts Solution 10X w/o Calcium w/o Magnesium w/o Sodium Bicarbonate w/ Phenol Red <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml

Salt Solutions & Salts / Buffers

Product List



Hepes

Cat N°	Description	Unit/Size
Liquid		
L0180	Hepes Buffer 1 M <i>State : Liquid Storage : +2/+8 °C Life : 36 months</i>	100 ml 500 ml
Powder		
P5455	Hepes, cell culture tested <i>State : Crystalline Storage : +20° C Life : 24 months</i>	250 g 500 g 1000 g



Other Salt Solutions

>> See composition page 72

Cat N°	Description	Unit/Size
Liquid		
L0640	NaCl Salt Solution 0.85 % <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml 500 ml
L0641	NaCl Salt solution 0.9% (non sterile) <i>State : Liquid Storage : +2/+8 °C Life : 6 months</i>	5 L
L0643	Potassium Chloride 0.075 M <i>State : Liquid Storage : +20° C Life : 48 months</i>	100 ml
L0680	Sodium Bicarbonate 7.5 % <i>State : Liquid Storage : +20° C Life : 24 months</i>	100 ml
L0642	Sodium Pyruvate 100 mM <i>State : Liquid Storage : +2/+8 °C Life : 48 months</i>	100 ml
L0630	Versen <i>State : Liquid Storage : +20° C Life : 24 months</i>	100 ml



Salts

Cat N° Description

P2092 Calcium Chloride Anhydrous <i>State : Powder Storage : +20° C Life : 36 months CAS N°10043-52-4</i>
P2090 Calcium Chloride Dihydrate <i>State : Powder Storage : +20° C Life : 36 months CAS N° 10035-04-8</i>
P2099 Calcium Nitrate Tetrahydrate <i>State : Powder Storage : +20° C Life : 36 months CAS N° 13477-34-4</i>
P2006 Cupric Sulfate Pentahydrate <i>State : Crystalline Storage : +20° C Life : 36 months CAS N° 7758-99-8</i>
P1099 EDTA-Ethylenediaminetetraacetic acid <i>State : Powder Storage : +20° C Life : 48 months CAS N° 60-00-4</i>
P2010 Ferric Nitrate Nonahydrate <i>State : Crystalline Storage : +20° C Life : 12 months CAS N° 7782-61-8</i>
P2015 Ferrous Sulfate Heptahydrate <i>State : Crystalline Storage : +20° C Life : 12 months CAS N° 7782-63-0</i>
P2020 Magnesium Chloride Anhydrous <i>State : Powder Storage : +20° C Life : 36 months CAS N° 7786-30-3</i>
P2021 Magnesium Chloride Hexahydrate <i>State : Crystalline Storage : +20° C Life : 48 months CAS N° 7791-18-6</i>
P2025 Magnesium Sulfate Anhydrous <i>State : Crystalline Storage : +20° C Life : 24 months CAS N° 7487-88-9</i>
P2032 Manganese sulfate monohydrate <i>State : Powder Storage : +20° C Life : 60 months CAS N° 10034-96-5</i>
P2034 Nickel chloride Hexahydrate <i>State : Crystalline Storage : +20° C Life : 36 months CAS N° 7791-20-0</i>
P2035 Potassium Chloride <i>State : Powder Storage : +20° C Life : 36 months CAS N° 7447-40-7</i>
P2040 Potassium Dihydrogen Phosphate Anhydrous <i>State : Powder Storage : +20° C Life : 36 months CAS N° 7778-77-0</i>
P2151 Potassium Hydroxide (pellets) <i>State : Powder Storage : +20° C Life : 48 months CAS N° 1310-58-3</i>
P2140 Potassium Tetraborate Tetrahydrate <i>State : Powder Storage : +20° C Life : 48 months CAS N°12045-78-2</i>

Cat N° **Description**

P2060 Sodium Bicarbonate, cell culture tested

State : Crystalline Storage : +20° C Life : 48 months CAS N° 144-55-8

P2066 Sodium Chloride

State : Powder Storage : +20° C Life : 48 months CAS N° 7647-14-5

P2065 Sodium Chloride (for dilution 8.5 g/l)

State : Powder Storage : +20° C Life : 48 months CAS N° 7647-14-5

P2064 Sodium Chloride (for dilution 9 g/l)

State : Powder Storage : +20° C Life : 48 months CAS N° 7647-14-5

P2110 Sodium Hydroxide (pellets)

State : Powder Storage : +20° C Life : 48 months CAS N° 1310-73-2

P2067 Sodium Molybdate Dihydrate

State : Powder Storage : +20° C Life : 48 months CAS N° 10102-40-6

P2076 Sodium Phosphate Dibasic Anhydrous

State : Crystalline Storage : +20° C Life : 36 months CAS N° 7558-79-4

P2079 Sodium Phosphate Dibasic Heptahydrate

State : Powder Storage : +20° C Life : 36 months CAS N° 7782-85-6

P2069 Sodium Phosphate Monobasic Anhydrous

State : Crystalline Storage : +20° C Life : 24 months CAS N° 7558-80-7

P2073 Sodium Phosphate Monobasic Dihydrate

State : Powder Storage : +20° C Life : 24 months CAS N° 13472-35-0

P2071 Sodium Phosphate Monobasic Monohydrate

State : Powder Storage : +20° C Life : 24 months CAS N° 10049-21-5

P5810 Sodium Pyruvate

State : Crystalline Storage: +4 ° C Life : 36 months CAS N° 113-24-6

P5911 Thiocetic Acid

State : Crystalline Storage : +20° C Life : 24 months CAS N° 1077-28-7

P2130 Tripotassium Citrate Anhydrous

State : Powder Storage : +20° C Life : 36 months CAS N°866-84-2

P2120 Trisodium Citric Acid

State : Powder Storage : +20° C Life : 36 months CAS N° 6132-04-3

P2088 Zinc Sulfate Heptahydrate

State : Powder Storage : +20° C Life : 60 months CAS N° 7446-20-0

Salt Solutions & Salts/ Buffers

Product List

Dulbecco's Phosphate Buffered Saline DPBS

	L0615	L0625	P0750	X0515	X0520
	Liquid mg/l	Liquid mg/l	Powder mg/l	Liquid mg/l	Liquid mg/l
Inorganic Salts					
Calcium Chloride Dihydrate	/	133	/	/	1330
Magnesium Chloride Hexahydrate	/	100	/	/	1000
Potassium Chloride	200	200	200	2000	2000
Potassium Phosphate Monobasic Anhydrous	200	200	200	2000	2000
Sodium Chloride	8000	8000	8000	80000	80000
Sodium Phosphate Dibasic Anhydrous	1150	1150	1150	11500	11500

Earle's Balanced Salts Solution EBSS

	L0600	L0601	L0602	X0112	X0113
	Liquid mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l
Inorganic Salts					
Calcium Chloride Dihydrate	/	/	265	2650	/
Magnesium Sulfate Anhydrous	/	/	97,67	976,7	/
Potassium Chloride	400	400	400	4000	4000
Sodium Bicarbonate	2200	2200	2200	/	/
Sodium Chloride	6800	6800	6800	68000	68000
Sodium Phosphate Monobasic Anhydrous	122	122	122	1220	1220
O.C.*					
D-Glucose	1000	1000	1000	10000	10000
Phenol Red Sodium Salt	/	11	11	110	110

Hank's Balanced Salts Solution HBSS

	L0605	L0606	L0607	L0608	L0609	L0611	L0612
	Liquid mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l
Inorganic Salts							
Calcium Chloride Dihydrate	/	185	/	185	/	/	185
Magnesium Sulfate Anhydrous	/	97,67	/	97,67	/	/	97,67
Potassium Chloride	400	400	400	400	400	400	400
Potassium Phosphate Monobasic Anhydrous	60	60	60	60	60	60	60
Sodium Bicarbonate	/	350	350	/	/	350	350
Sodium Chloride	8000	8000	8000	8000	8000	8000	8000
Sodium Phosphate Dibasic Anhydrous	47,88	47,88	47,88	47,88	47,88	47,68	47,88
O.C.*							
D-Glucose	1000	1000	1000	1000	1000	1000	1000
Phenol Red Sodium Salt	/	11	/	11	11	11	/

Hank's Balanced Salts Solution HBSS

	P0153	P0154	X0507	X0509	X0510	X0513
	Powder mg/l	Powder mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l	Liquid mg/l
Inorganic Salts						
Calcium Chloride Dihydrate	/	185	/	1850	/	/
Magnesium Sulfate Anhydrous	/	97,68	/	976,7	/	/
Potassium Chloride	400	400	4000	4000	4000	4000
Potassium Phosphate Monobasic Anhydrous	60	60	600	600	600	600
Sodium Bicarbonate	/	/	/	/	3500	/
Sodium Chloride	8000	8000	80000	80000	80000	80000
Sodium Phosphate Dibasic Anhydrous	47,88	47,88	476,8	478,8	476,8	476,8
O.C.*						
D-Glucose	1000	1000	10000	10000	10000	10000
Phenol Red Sodium Salt	/	11	/	110	/	110

	Alsever's Solution	L0636
Inorganic Salts		Liquid mg/l
	Citric acid free acid	550
	Citric acid Trisodium salt dihydrate	8000
O.C.*	Sodium Chloride	4200
	D-Glucose	20500
	Versen	L0630
		Liquid mg/l
Inorganic Salts	EDTA Disodium Salt Dihydrate	292
	Potassium Chloride	193
	Potassium Phosphate Monobasic Anhydrous	190
	Sodium Chloride	7995
O.C.*	Sodium Phosphate Dibasic Anhydrous	1150
	D-Glucose	198

* Other Components