


Preparation 10 x concentrate Krebs slice solution

10 liter stock solvent
Dissolve in mQ water
Filtrate for longer storage

stock-solution	Mole. Weight	Molarity (mM)	Conc. (g/L)	10 liter 1x (g)	10 liter 10 x(g)	
Calcium chloride (CaCl ₂ *2H ₂ O) (ISIS 123)	146.99	2.5	0.37	3.67	36.70	Dissolve in 5 liter mQ water
		Make sure CaCl is dissolved !! Only then add the following:				
Potassium chloride (KCl) (ISIS 215)	74.55	5.0	0.37	3.73	37.30	Dissolve these supplements. in another 5 liters mQ water
Sodium chloride (NaCl) (ISIS 276)	58.45	118.0	6.90	69.00	690.00	
Magnesium sulfate (MgSO ₄ .7 H ₂ O) (ISIS 260)	246.38	1.1	0.27	2.71	27.10	
Potassium dihydrogen phosphate (KH ₂ PO ₄) (ISIS 235)	136.09	1.2	0.16	1.63	16.30	

Filtrate for longer storage.
Store at 4°C. (Cold chamber)

Preparation 1 x Krebs slice solution

Dilute 10 x Slice Krebs buffer concentrate (cold chamber) to 1 x.
e.g. 0,100 L 10 x concentrate + 0,900 liter cold mQ water.

Before use supplement Slice krebs buffer (1x) with Glucose, HEPES and Sodium Bicarbonate.

	grams				
	1 liter	2 liter	3 liter	4 liter	5 liter
Sodium bicarbonate (NaHCO ₃)	2.10	4.20	6.30	8.40	10.50
Glucose.H ₂ O	4.50	9.90	13.50	18.00	22.50
HEPES	2.38	4.76	7.14	9.52	11.90

Saturate with carbogen (95 % O₂ and 5 % CO₂) on ice for 20 minutes.
Adjust pH to 7.4