

MOPS buffer (without Sodium Pyruvate)

	MWT	Concentration	Mass for 1 Litre	Mass for 2 litres
NaCl (Sodium Chloride)	58.44	145 mM	8.474g	16.948g
MOPS (*3-(N-morpholino)propanesulfonic acid)	209.30	2.0 mM	418.6mg	837.2mg
KCl (Potassium Chloride)	74.55	4.7 mM	350.4mg	700.8mg
NaH ₂ PO ₄ (Monosodium phosphate)	138.00	1.2 mM	165.5mg	331.2mg
Glucose	180.16	5.0 mM	900.8mg	1.802g
EDTA (Ethylenediaminetetraacetic acid)	292.20	0.02 mM	5.8mg	11.7mg

Adjust pH to 7.4 with NaOH

Then add the following:

	Stock	Concentration	Mass for 1 Litre	Mass for 2 litres
Magnesium Chloride	1M	1.17mM	1.17ml	2.34ml
Calcium Chloride	1M	2.0mM	2ml	4ml