

PREPARATION OF HIGH SPEED EXTRACT

1XMMR (salts per 10liters):

100mM NaCl	58.4g NaCl
2mM KCl	1.49g KCl
1mM MgSO ₄	2.46g MgSO ₄ ·7H ₂ O
2mM CaCl ₂	2.94g CaCl ₂
5mM HEPES	11.9g HEPES
0.1mM EDTA	0.675g EDTA

200mls:

20X XB salt stock	2M KCl	29.8g solid (74.56g/mole)(2mole/l)(0.2l)
	20mM MgCl ₂	4mls 1M; 1:50
	2 mM CaCl ₂	0.058 g CaCl ₂ · 2H ₂ O or 0.4 mls of 1M sk.

200 mls XB

10ml	20X XB salt stock	[final] 100mM KCl 0.1mM CaCl ₂ 1 mM MgCl ₂
2ml	HEPES 1M stock (pH 7.7 at 15 mM with KOH); 1:100 dilution	10mM
6.66ml	sucrose 1.5M stock; 1:30 dilution	50mM

300mls 2% cysteine in 1X XB salts, pH 7.8

50 mls CSF-XB

2.5 mls	20X XB salt stock
50 µl	1M MgCl ₂
500µl	1M HEPES stock
1.665ml	1.5M sucrose stock
500µl	0.5 M EGTA (1:100)
44.8 mls	H ₂ O

plus, for some steps, dilute protease inhibitors 1:1000
 leupeptin (10mg/ml combined stocks in DMSO)
 chymostatin
 pepstatin

1M CaCl₂

Versilube

Energy Mix (aliquots at -20°C):

150 mM creatine phosphate (BMB; 127574)	For 15ml=0.736g
20 mM ATP (BMB 519979)	0.181g

20 mM MgCl₂ (from 1M stock; 1:500)
store in aliquots at -20°C