

Supplemental Table 1. Buffer X

<b>Reagent</b>	<b>Concentration</b>
K <sub>2</sub> EGTA	7.23 mM
CaK <sub>2</sub> EGTA	2.77 mM
Imidazole	20 mM
Taurine	20 mM
Na-ATP	5.7 mM
Na-PCr	14.3 mM
MgCl <sub>2</sub> -6H <sub>2</sub> O	6.56 mM
MES potassium salt	50 mM

pH = 7.1

Supplemental Table 2. Buffer Z

<b>Reagent</b>	<b>Concentration</b>
MES Potassium Salt	105 mM
KCl	30 mM
KH <sub>2</sub> PO <sub>4</sub>	10 mM
MgCl <sub>2</sub> -6H <sub>2</sub> O	5 mM
BSA	0.5 mg/ml

pH = 7.1