

Supplemental Table 1 Ingredients of the reconstructed medium

	DMEM	Reconstructed medium
Inorganic salts (mM)		
CaCl <sub>2</sub>	1.8	-
CaHCO <sub>3</sub>	-	1.8
Fe(NO <sub>3</sub> ) <sub>3</sub>	0.0002	-
FeCl <sub>2</sub>	-	0.0002
MgSO <sub>4</sub>	0.8139	-
MgCl <sub>2</sub>	-	0.8139
KCl	5.3333	5.3333
NaHCO <sub>3</sub>	44.0	-
NaCl or NMDG-Cl	110.3 (NaCl)	140
NaH <sub>2</sub> PO <sub>4</sub>	0.9058	-
KH <sub>2</sub> PO <sub>4</sub>	-	0.44
K <sub>2</sub> HPO <sub>4</sub>	-	0.44

Reconstructed buffer contains MEM Vitamin Solution (Thermo Fisher), MEM Non-Essential Amino Acids Solution (Thermo Fisher), MEM Amino Acids Solution (Thermo Fisher), and 10 mM HEPS (2-[4-(2-hydroxyethyl)piperazin-1-yl]ethanesulfonic acid). pH of medium was adjusted 7.4 by KOH. NMDG: N-Methyl-D-glucamine.