

**1526a. KIRITIMATIELLA (L21) MEDIUM**

NaCl	60.0	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	6.0	g
KCl	1.5	g
Na <sub>2</sub> SO <sub>4</sub>	1.0	g
NH <sub>4</sub> Cl	1.0	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.4	g
K <sub>2</sub> HPO <sub>4</sub>	0.4	g
Trace elements solution (see medium 141)	10.0	ml
Na-resazurin solution (0.1% w/v)	0.5	ml
Na <sub>2</sub> CO <sub>3</sub>	1.5	g
D-Glucose	1.0	g
Vitamins solution (see medium 141)	10.0	ml
L-Cysteine-HCl x H <sub>2</sub> O	0.5	g
Na <sub>2</sub> S x 9 H <sub>2</sub> O	0.5	g
Distilled water	1000.0	ml

Dissolve ingredients except carbonate, glucose, vitamins, cysteine and sulfide, then sparge medium with 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture for 30 – 45 min to make it anoxic. Dispense medium under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add glucose, vitamins, cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N<sub>2</sub> gas (vitamins are sterilized by filtration) and carbonate from a sterile anoxic stock solution prepared under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture. Prior to use adjust pH of complete medium to 7.3 - 7.5, if necessary.