

**747. DSIC MEDIUM (modified)****Solution A:**

NaCl	125.00	g
NH <sub>4</sub> Cl	0.50	g
KH <sub>2</sub> PO <sub>4</sub>	0.60	g
K <sub>2</sub> SO <sub>4</sub>	2.50	g
Na-acetate	2.00	g
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> x 5 H <sub>2</sub> O	0.10	g
Yeast extract	0.75	g
Vitamin B <sub>12</sub> (10 mg/100ml H <sub>2</sub> O)	1.00	ml
Trace element solution SL-10 (see medium 320)	1.00	ml
MOPS buffer	2.10	g
Distilled water	960.00	ml

The acronym MOPS stands for the organic buffer N-morpholinopropanesulfonic acid at pH 7.0. The pH of solution A is 7.0. Boil the medium under N<sub>2</sub> gas and distribute about 13 ml in 15 ml Hungate tubes. Autoclave at 121°C for 15 minutes.

**Solution B:**

MgCl <sub>2</sub> x 6 H <sub>2</sub> O	10.00	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.20	g
Distilled water	70.00	ml

pH 7.0.

Boil medium under N<sub>2</sub> gas and autoclave in a screw-capped bottle at 121°C for 15 minutes.

**Solution C:**

NaHCO <sub>3</sub>	1.00	g
Distilled water	12.00	ml

Filter sterilize this solution.

After cooling inject 1.0 ml of solution B and 0.2 ml of solution C in each tube of solution A. The pH of the complete medium is 7.0-7.1.