**547. ISP MEDIUM 4**

**Solution I:**
Difco soluble starch, 10.0 g. Make a paste of the starch with a small amount of cold distilled water and bring to a volume of 500 ml.

**Solution II:**
- CaCO$_3$: 2.0 g
- $K_2$HPO$_4$ (anhydrous): 1.0 g
- MgSO$_4$ x 7 H$_2$O: 1.0 g
- NaCl: 1.0 g
- $(NH_4)_2$SO$_4$: 2.0 g
- Distilled water: 500.0 ml
- Trace salt solution: 1.0 ml

The pH should be between 7.0 and 7.4. Do not adjust if it is within this range. Mix solutions I and II together. Add 20.0 g agar. Liquify agar by steaming at 100°C for 10 to 20 min.

**Trace salt solution:**
- FeSO$_4$ x 7 H$_2$O: 0.1 g
- MnCl$_2$ x 4 H$_2$O: 0.1 g
- ZnSO$_4$ x 7 H$_2$O: 0.1 g
- Distilled water: 100.0 ml