

428. HETEROTROPHIC MEDIUM H3P**Solution A:**

| | | |
|---|--------|----|
| KH ₂ PO ₄ | 2.300 | g |
| Na ₂ HPO ₄ x 2 H ₂ O | 2.900 | g |
| Distilled water | 50.000 | ml |

Solution B:

| | | |
|---|---------|----|
| NH ₄ Cl | 1.000 | g |
| MgSO ₄ x 7 H ₂ O | 0.500 | g |
| CaCl ₂ x 2 H ₂ O | 0.010 | g |
| MnCl ₂ x 4 H ₂ O | 0.005 | g |
| NaVO ₃ x H ₂ O | 0.005 | g |
| Trace element sol. SL-6 (see medium 27) | 5.000 | ml |
| Distilled water | 850.000 | ml |
| Agar (if necessary) | 20.000 | g |

Solution C:

| | | |
|-------------------------|--------|----|
| Ferric ammonium citrate | 0.050 | g |
| Distilled water | 20.000 | ml |

Solution D:

| | | |
|----------------------------|--------|----|
| Yeast extract | 1.000 | g |
| Na-acetate | 1.000 | g |
| Na ₂ -succinate | 1.000 | g |
| DL-Malate | 1.000 | g |
| Distilled water | 30.000 | ml |

pH 7.0

Solution E:

| | | |
|-----------------|--------|----|
| Na-lactate | 1.000 | g |
| Na-pyruvate | 1.000 | g |
| D-Mannitol | 1.000 | g |
| D-Glucose | 2.000 | g |
| Distilled water | 50.000 | ml |

pH 7.0

filter-sterilized

Standard vitamin solution: *See next page*

Standard vitamin solution:

| | | |
|-----------------------------------|---------|----|
| Riboflavin | 10.000 | mg |
| Thiamine-HCl x 2 H ₂ O | 50.000 | mg |
| Nicotinic acid | 50.000 | mg |
| Pyridoxine-HCl | 50.000 | mg |
| Ca-pantothenate | 50.000 | mg |
| Biotin | 0.100 | mg |
| Folic acid | 0.200 | mg |
| Vitamin B ₁₂ | 1.000 | mg |
| Distilled water | 100.000 | ml |

H₃P is a heterotrophic medium for growth, purity checking and isolation of a broad spectrum of aerobic bacteria (Ref. 3367).

Solutions A, B, C and D are autoclaved separately for 15 min at 121°C, cooled down to 50°C and then mixed aseptically with filter-sterilized solution E (at 50°C) and 5.0 ml of standard vitamin solution. The final pH of this medium should be 6.8 without adjustment.