

## 104: PYG MEDIUM (modified)

This recipe contains strain-specific modifications for *Propionibacterium acidifaciens* DSM 21887 \*

Final pH: 7.2

Final volume: 1000 ml

|                                       |        |      |
|---------------------------------------|--------|------|
| Trypticase peptone                    | 5.00   | g    |
| Peptone                               | 5.00   | g    |
| Yeast extract                         | 10.00  | g    |
| Beef extract                          | 5.00   | g    |
| Glucose                               | 5.00   | g    |
| K <sub>2</sub> HPO <sub>4</sub>       | 2.00   | g    |
| Tween 80                              | 1.00   | ml   |
| <b>Salt solution</b>                  | 40.00  | ml   |
| Resazurin                             | 1.00   | mg   |
| <b>Vitamin K<sub>1</sub> solution</b> | 0.20   | ml   |
| <b>Haemin solution</b>                | 10.00  | ml   |
| L-Cysteine HCl x H <sub>2</sub> O     | 0.50   | g    |
| <b>Bovine serum</b>                   | 10.00  | ml/l |
| Distilled water                       | 950.00 | ml   |

The vitamin K<sub>1</sub>, haemin solution and the cysteine are added after the medium has been boiled and cooled under CO<sub>2</sub>. Adjust pH to 7.2 using 8 N NaOH. Distribute under N<sub>2</sub> and autoclave.

\* Plus bovine serum (10µl/ml)

### Salt solution (from medium 104)

|  |         |    |
|--|---------|----|
| CaCl <sub>2</sub> x 2 H <sub>2</sub> O | 0.25    | g  |
| MgSO <sub>4</sub> x 7 H <sub>2</sub> O | 0.50    | g  |
| K <sub>2</sub> HPO <sub>4</sub>        | 1.00    | g  |
| KH <sub>2</sub> PO <sub>4</sub>        | 1.00    | g  |
| NaHCO <sub>3</sub>                     | 10.00   | g  |
| NaCl                                   | 2.00    | g  |
| Distilled water                        | 1000.00 | ml |

### Haemin solution (from medium 78)

|                 |        |    |
|-----------------|--------|----|
| Haemin          | 50.00  | mg |
| NaOH (1 N)      | 1.00   | ml |
| Distilled water | 100.00 | ml |



## 104: PYG MEDIUM (modified)

Dissolve 50 mg haemin in 1 ml 1 N NaOH; make up to 100 ml with distilled water and filter sterilize. Store refrigerated.

### **Vitamin K<sub>1</sub> solution** (from medium 78)

|                        |       |    |
|------------------------|-------|----|
| Vitamin K <sub>1</sub> | 0.10  | ml |
| Ethanol (95 %)         | 20.00 | ml |

Dissolve 0.1 ml of vitamin K<sub>1</sub> in 20 ml 95% ethanol and filter sterilize. Store refrigerated in a brown bottle.