

104: PYG MEDIUM (modified)

This recipe contains strain-specific modifications for *Clostridium nitritogenes* DSM 3985 *

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 ₂ HPO ₄ | 2.00 | g |
| Tween 80 | 1.00 | ml |
| Salt solution | 40.00 | ml |
| Resazurin | 1.00 | mg |
| Vitamin K₁ solution | 0.20 | ml |
| Haemin solution | 10.00 | ml |
| L-Cysteine HCl x H ₂ O | 0.50 | g |
| Maltose | 5.00 | g/l |
| Distilled water | 950.00 | ml |

The vitamin K₁, haemin solution and the cysteine are added after the medium has been boiled and cooled under CO₂. Adjust pH to 7.2 using 8 N NaOH. Distribute under N₂ and autoclave.

* Plus 0.5% maltose

Salt solution (from medium 104)

| | | |
|--|---------|----|
| CaCl ₂ x 2 H ₂ O | 0.25 | g |
| MgSO ₄ x 7 H ₂ O | 0.50 | g |
| K ₂ HPO ₄ | 1.00 | g |
| KH ₂ PO ₄ | 1.00 | g |
| NaHCO ₃ | 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 |

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

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sterilize. Store refrigerated.

Vitamin K₁ solution (from medium 78)

| | | |
|------------------------|-------|----|
| Vitamin K ₁ | 0.10 | ml |
| Ethanol (95 %) | 20.00 | ml |

Dissolve 0.1 ml of vitamin K₁ in 20 ml 95% ethanol and filter sterilize. Store refrigerated in a brown bottle.