# DEOXYCHOLATE CITRATE AGAR, HYNES

A selective and differential medium for the isolation of Gram-negative enteric micro-organisms. Deoxycholate Citrate Agar, Hynes is more selective than Deoxycholate Citrate Agar, Leifson.

| **Dehydrated media** | |
|---|---|
| Code number: | 500 g: DCH20500, 5 kg: DCH25000 |
| Colour: | Beige |
| Appearance: | Homogeneous hygroscopic powder |
| pH before sterilization (25 °C): | 6,8 – 7,2 |

**Direction:** Suspend **73 g** in one litre of distilled water and heat with frequent agitation until the medium boils well. Mix well before pouring.

**Warning!**
The medium is heat sensitive.
No further sterilisation is necessary or desirable.

| **Prepared media** | |
|---|---|
| Bottled media: | 100 ml: DCH30100, 500 ml: DCH30500 |
| Plated media: | 55 mm: DCH50055, 90 mm: DCH50090 |
| Colour: | Brownish |
| pH (25 °C): | 6,9 – 7,1 |

**Direction:** Dispense the melted bottled media aseptically into sterile Petri-dishes. Media in Petri-dishes are ready to use.

## FORMULA in g/l

| | |
|---|---|
| Peptones | 27,50 |
| Lactose | 10,00 |
| Sodium citrate | 9,00 |
| Sodium thiosulphate | 5,50 |
| Sodium deoxycholate | 5,00 |
| Ferric citrate | 1,00 |
| Neutral red | 0,02 |
| Agar | 15,00 |

**Note:** The typical composition can be adjusted to obtain optimal performance.

**Storage conditions:** Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled media protected from light at room temperature. Store the plated media protected from light at 2-8 °C. Use before the expiry date on the label.

**Quality control:**

| **Test strains** | Incubation temp: 37 °C | **Growth** | Incubation time: 24 h |
|---|---|---|---|
| *Salmonella typhimurium* | ATCC 14028 | Good, colourless colonies with black centre | |
| *Escherichia coli* | ATCC 25922 | Strongly inhibited, rose-red colonies | |
| *Proteus mirabilis* | ATCC 29906 | Inhibited | |
| *Enterococcus faecalis* | ATCC 29212 | Inhibited | |

**References:** Hynes (1942) J. Path. Bact. 54: 193.

**In vitro diagnostic – for professional use only!**