

SIM MEDIUM

A semi-solid differential medium for the differentiation of bacteria on the basis of motility, hydrogen sulphite and indole production.

| Dehydrated media | |
|--------------------------------|---------------------------------|
| Code number: | 500 g: SIM20500, 5 kg: SIM25000 |
| Colour: | Yellowish |
| Appearance: | Homogeneous hygroscopic powder |
| pH before autoclaving (25 °C): | 6,5 – 6,9 |

Direction: Suspend **30 g** in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

| Prepared media | |
|-----------------------|------------------------------------|
| Bottled media: | 100 ml: SIM30100, 500 ml: SIM30500 |
| Tubed media: | 100 x 12 mm: SIM40003 (3 ml) |
| Colour: | Yellowish |
| pH (25 °C): | 6,6 – 6,8 |

Direction: Dispense the melted bottled media aseptically into sterile test tubes. Media in tubes are ready to use.

FORMULA in g/l

| | |
|---------------------------|------|
| Peptones | 26,0 |
| Ferrous ammonium sulphate | 0,2 |
| Sodium thiosulphate | 0,2 |
| Agar | 3,6 |

Note: The typical formula 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 and tubed media protected from light at room temperature. Use before the expiry date on the label.

Quality control:

| Test strains | Incubation temp: 37 °C | Reactions | | | Incubation time: 24 h | | |
|-------------------------------------|------------------------|------------------|----------|--------|-----------------------|--|--|
| | | H ₂ S | Motility | Indole | | | |
| <i>Shigella sonnei</i> ATCC 25931 | | - | - | - | | | |
| <i>Proteus mirabilis</i> ATCC 29906 | | + | + | + | | | |
| <i>Escherichia coli</i> ATCC 25922 | | - | + | + | | | |

References: Blazevic (1968) Appl. Microbiol. 16: 668.

In vitro diagnostic – for professional use only!