Technical Sheet

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YEAST EXTRACT AGAR

A nutrient agar for the plate count of organisms in water.

TYPICAL FORMULA (g/l)

Tryptone 6
Yeast Extract 3
Agar 15

DIRECTIONS

Suspend 24 g in 1 litre of distilled water. Heat to boiling with agitation until complete dissolution and autoclave at 121° C for 15 minutes. Cool to 50° C and distribute into sterile Petri dishes.

Final pH: 7.2 ± 0.2

DESCRIPTION

Yeast Extract Agar is prepared according to the formula described by Windle Taylor. This medium is recommended by ISO 6222 for the plate count of microorganisms in water.

TECHNIQUE

- 1. Prepare appropriate decimal dilutions of the water sample and pipette 1ml portions of the water and each dilution into duplicate sterile Petri dishes.
- 2.Add 15ml of Yeast Extract Agar cooled to 45-50°C to each plate. Mix the contents by circular
- 3. Allow to solidify, and incubate duplicate sets of plates for 24 hours at 37°C and 3 days at 20-22°C respectively.
- 4. Select plates containing 30-300 colonies for counting. No count should be made on a plate containing less than 30 colonies unless the plates from the undiluted water contain less than this number.

USER QUALITY CONTROL (37°C 24 h)

Positive control:

Escherichia coli ATCC 25922

Negative control:

Uninoculated medium

STORAGE

Dehydrated medium : store at 10-30°C User prepared flasks : at 2-8°C for 1 month

REFERENCES

- Windle Taylor E. (1958) `The Examination of Waters and Water Supplies', 7th ed., Churchill Ltd., London, pp. 394-398 and 778.
- ISO 6222 : 1999 Water quality-Enumeration of culturable microorganisms-Colony count by inoculation in a nutrient agar culture medium

PACKAGING

4022752 Yeast Extract Agar 500 g (20.8 l)

492275 Yeast Extract Agar 30 ready to use plates (55 mm)