

TGE Agar (Tryptone Glucose Extract Agar)

For determining the total aerobic microbial count in water and other materials.

General Information

This culture medium complies with the specifications given by the APHA for the examination of water (1998) and for food (1992) and the recommendations of the "American Petroleum Institute" (1959). For details concerning the examination of foodstuffs also see BAUMGARTEN and LEVETZOW (1969).

Typical Composition (g/litre)

Peptone from casein 5.0; meat extract 3.0; D(+)-glucose 1.0; agar-agar 12.0.

Preparation

Suspend 21 g/litre, autoclave (15 min at 121 °C).

pH: 7.0 ± 0.2 at 25 °C.

The plates are clear and yellowish-brown.

Experimental Procedure and Evaluation

The culture medium is usually inoculated by the pour-plate method. Other details depend on the purpose for which the medium is used.

Incubation: 24 hours at 35 °C aerobically.

Literature

American Public Health Association, American Water Works Association and Water Pollution Control Federation: Standard Methods for the Examination of Water and Wastewater, 20th ed., Washington, 1998.

American Public Health Association: Compendium of methods for the microbiological examination of foods. - 3rd ed. (1992).

BAUMGARTEN, H.J., u. LEVETZOW, R.: Untersuchungen zu hygienischen Beschaffenheit von im Handel befindlicher Speisegelatine. - Arch. f. Lebensmittelhyg., 20; 38-42 (1969).

Recommended Practice for Biological Analyses of Subsurface Injection Waters. Vol. 38, 1st ed., American Petroleum Institute (1959).

Ordering Information

Product	Ordering No.	Pack size
TGE Agar (Tryptone Glucose Extract Agar)	1.10128.0500	500 g



Escherichia coli ATCC 25922

Quality control (spiral plating methods)

Test strains	Inoculum (cfu/ml)	Recovery %
Staphylococcus aureus ATCC 25923	10 ³ -10 ⁵	≥ 70
Streptococcus agalactiae ATCC 13813	10 ³ -10 ⁵	≥ 70
Enterococcus faecalis ATCC 11700	10 ³ -10 ⁵	≥ 70
Escherichia coli ATCC 25922	10 ³ -10 ⁵	≥ 70
Salmonella typhimurium ATCC 14028	10 ³ -10 ⁵	≥ 70
Pseudomonas aeruginosa ATCC 27853	10 ³ -10 ⁵	≥ 70
Bacillus cereus ATCC 11778	10 ³ -10 ⁵	≥ 70