DEV Nutrient Agar

For determining the total microbial count in water according to the German Standard Methods (Deutsche Einheitsverfahren), the German Drinking Water Regulations (Trinkwasser-Verordnung) (1990) and the German regulation for food examination (LMBG).

Typical Composition (g/litre)

Peptone from meat 10.0; meat extract 10.0; sodium chloride 5.0; agar-agar 18.0.

Preparation

Suspend 43 g/litre, autoclave (15 min at 121 °C).

pH: 7.3 ± 0.2 at 25 °C.

The plates are clear and yellowish-brown.

Any possible turbity of the medium has no impact on the microbiological performance!

Experimental Procedure and Evaluation

According to the German regulations, the medium is inoculated by the pour plate method and incubated at 20 ± 2 or 35 ± 1 °C for 44 ± 4 hours, aerobically.

Literature

Bundesgesundheitsamt: Amtliche Sammlung von Untersuchungsverfahren nach § 35 LMBG. Beuth Verlag Berlin, Köln.

Verordnung über Trinkwasser und über Wasser für Lebensmittelbetriebe vom 12. Dezember 1990. **- Bundesgesetzbl., Teil I**; 2613-2629 (1990).

Ordering Information

Product	Merck Cat. No.	Pack size
DEV Nutrient Agar	1.11471.0500	500 g
DEV Nutrient Agar	1.11471.5000	5 kg

Quality control (spiral plating method)

Test strains	Inoculum (cfu/ml)	Recovery rate (%)
Escherichia coli ATCC 25922	10^3-10^5	≥ 70
Klebsiella pneumoniae ATCC 13882	10^3-10^5	≥ 70
Serratia marcescens ATCC 14756	10^3-10^5	≥ 70
Proteus vulgaris ATCC 13315	10^3-10^5	≥ 70
Aeromonas hydrophila ATCC 7966	10^3-10^5	≥ 70
Enterococcus faecalis ATCC 11700	10^3-10^5	≥ 70
Bacillus subtilis ATCC 6633	10^3-10^5	≥ 70
Pseudomonas aeruginosa ATCC 27853	10^3-10^5	≥ 70

Enterococcus faecalis ATCC 19433

Escherichia coli ATCC 25922