Standard II Nutrient Agar

This agar can be used for the cultivation and enrichment of less fastidious bacteria, for setting up stock cultures and as bases for preparing special culture media.

LEVETZOW (1971) reported that Standard II Nutrient Agar can be used in the detection of inhibitors in the bacteriological examination of meat. See also Test Agar pH 6.0, pH 8.0 and pH7.2. These media are specially developed for the examination of meat. ZAVANELLA et al. (1986) modified the medium with various additives and used it as a test comparable but simpler than the EEC four-plate-test.

Typical Composition (g/litre)

Peptone from meat 3.45; peptone from casein 3.45; sodium chloride 5.1; agar-agar 13.0

Preparation

Suspend 25 g/litre, autoclave (15 min at 121 °C).

pH: 7.5 ± 0.2 at 25 °C.

The plates are clear and yellowish-brown.

Experimental Procedure and Evaluation

Depend on the purpose for which the medium is used.

Incubation: 24 h at 35 °C aerobically.

Literature

Deutsches Fleischbeschaugesetz, Ausführungsbestimmungen A über die Untersuchung und gesundheitspolizeiliche Behandlung der Schlachttiere und des Fleisches bei Schlachtungen im Inland; Anlage 4 zu § 20 Abs. 4: Rückstandsuntersuchung.

DIN Deutsches Institut für Normung e.V.: Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlammuntersuchung. Mikrobiologische Verfahren (Gruppe K). Nachweis von Pseudomonas aeruginosa (K 8).
- **DIN38411**.

LEVETZOW, R.: Untersuchung auf Hemmstoffe im Rahmen der bakteriologischen Fleischuntersuchung. – **Bundesgesundheitsblatt, 14**; 211-213 (1971).

ZAVANELLA, M., AURELIA, P., a. FERRINI, A.M.: Improved microbiological method for the detection of antimicrobial residues in meat.
- **Arch. Lebensmittelhyg., 37**; 118-120 (1986).

Ordering Information

Product	Merck Cat. No.	Pack size
Standard II Nutrient Agar	1.07883.0500	500 g

Quality control (spiral plating method)

Test strains	Inoculum (cfu/ml)	Recovery rate %
Escherichia coli ATCC 11775	10^3-10^5	≥ 70
Salmonella typhimurium ATCC 13311	10^3-10^5	≥ 70
Shigella flexneri ATCC 29903	10^3-10^5	≥ 70
Staphylococcus aureus ATCC 6538	10^3-10^5	≥ 70
Streptococcus pyogenes ATCC 21059	10^3-10^5	≥ 70