

Count Agar Sugar-free acc. to FIL-IDF

For determining the count of so-called infective microorganisms in butter and other dairy products.

This culture medium complies with the recommendations of the Fédération Internationale de Laiterie - International Dairy Federation (Internationaler Milchwirtschaftsverband), (1985, 1991).

Mode of Action

"Infective microorganisms" are defined as those organisms which are not directly involved in the microbiological production of a dairy product or which do not belong to its specific flora. This culture medium does not contain any fermentable carbohydrates and has relatively little nutrient value so that these microorganisms can be cultivated selectively.

Typical Composition (g/litre)

Peptone from gelatin 7.5; peptone from casein 7.5; sodium chloride 5.0; agar-agar 15.0.

Preparation

Suspend 35 g/litre, autoclave (15 min at 121 °C).

pH: 7.5 ± 0.2 at 25 °C.

The plates are clear and yellowish.

Experimental Procedure and Evaluation

The instructions given in the international Standard of the FIL-IDF should be followed so that the results can be compared at an international level.

Incubation: 48 hours at 35 °C, followed by 48 hours at 20 °C.

Do not count pin-point colonies.

Literature

International Dairy Federation: Methods of sampling milk and milk products. - **International Standard, FIL/IDF 50 B** (1985).

Internationaler Milchwirtschaftsverband: Zählung von Infektionskeimen in Butter. - **Internationaler Standard, 153** (1991).

Internationaler Milchwirtschaftsverband: Zählung von Infektionskeimen in Sauermilcherzeugnissen. - **Internationaler Standard FIL/IDF, 153** (1991).

Ordering Information

Product	Merck Cat. No.	Pack size
Count Agar Sugar-free acc. to FIL-IDF	1.10878.0500	500 g

Quality control (spiral plating method)

Test strains	Inoculum (cfu/ml)	Recovery rate (%)
Escherichia coli ATCC 25922	10 ³ -10 ⁵	≥ 70
Staphylococcus aureus ATCC 25923	10 ³ -10 ⁵	≥ 70
Enterococcus faecalis ATCC 11700	10 ³ -10 ⁵	≥ 70
Pseudomonas aeruginosa ATCC 27853	10 ³ -10 ⁵	≥ 70
Bacillus cereus ATCC 11778	10 ³ -10 ⁵	≥ 70
Candida albicans ATCC 10231	10 ³ -10 ⁵	≥ 70