

Standard I Nutrient Agar

These culture media are suitable for the cultivation of fastidious bacteria; after addition of blood, ascites fluid or serum they can also be used to cultivate streptococci, pneumococci and erysipelas organisms etc. They are employed for the enumeration, isolation and enrichment of bacteria and also as high-grade bases for preparing special culture media.



In Vitro Diagnostic Medical Device –

For professional use only



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Merck KGaA, 64271 Darmstadt

*See also General Instruction for Use
„How to use Dehydrated Culture Media“*

*For MSDS, warnings and precautions see our website:
www.merck-chemicals.com*

Principle

Microbiological method.

Typical Composition (g/litre)

Peptones 15.0; yeast extract 3.0; sodium chloride 6.0; D(+)-glucose 1.0; agar-agar 12.0.

Preparation

Suspend 37 g Standard I Nutrient Agar/litre, autoclave (15 min at 121 °C).

pH: 7.5 ± 0.2 at 25 °C.

The prepared media are clear and yellowish-brown.

Storage

Usable up to the expiry date when stored dry and tightly closed at +15 to +25 °C. Protect from light.

After first opening of the bottle the content can be used up to the expiry date when stored dry and tightly closed at +15 to +25 °C.

Specimen

e.g. Blood.

Clinical specimen collection, handling and processing, see general instructions of use.

Experimental Procedure and Evaluation

Depend on the purpose for which the media are used.

Incubation: 24 h at 35 °C aerobically.

Quality control (spiral plating method)

Test strains	Inoculum (cfu/ml)	Recovery rate %
Staphylococcus aureus ATCC 25923	10 ³ -10 ⁵	≥ 70
Streptococcus pyogenes ATCC 12344	10 ³ -10 ⁵	≥ 70
Streptococcus pneumoniae ATCC 6301	10 ³ -10 ⁵	≥ 70
Listeria monocytogenes ATCC 19118	10 ³ -10 ⁵	≥ 70
Erysipelothrix rhusiopathiae ATCC 19414	10 ³ -10 ⁵	≥ 70
Escherichia coli ATCC 25922	10 ³ -10 ⁵	≥ 70
Shigella flexneri ATCC 12022	10 ³ -10 ⁵	≥ 70

Ordering Information

Product	Ordering No.	Pack size
Standard I Nutrient Agar	1.07881.0500	500 g
Standard I Nutrient Agar	1.07881.5000	5 kg
Merckoplate® Standard I Nutrient agar	1.10416.0001	1 x 20 plates



Escherichia coli ATCC 25922