

# TECHNICAL DATA SHEET

Article No. 9770

Columbia Agar Ph. Eur.

## SYNONYMS

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## SPECIFICATION

Highly nutritious general purpose medium used for the isolation and cultivation of fastidious and nonfastidious microorganisms from clinical and non-clinical materials, according to Pharmacopeial Harmonized Methods.

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## FORMULA\* IN G/L

Casein peptone	10.00
Meat peptone	5.00
Heart peptone	3.00
Yeast extract	5.00
Maize starch	1.00
Sodium chloride	5.00
Agar	15.00

Final pH 7.3 ±0.2 at 25 °C

\*Adjusted and/or supplemented as required to meet performance criteria.

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## DIRECTIONS

Suspend 44 g of powder in 1 l of distilled water. Heat to boiling with constant stirring. Distribute into suitable containers and sterilize by autoclaving at 121 °C for 15 minutes. If necessary, cool to 45-50 °C and add the supplements or inhibitors as per use. Homogenize and pour into plates.

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## DESCRIPTION

In 1966, Ellner et al. of Columbia University described a new culture medium for medical bacteriology that could be used with or without the addition of blood to obtain abundant growth and characteristic colonies. Since then a lot of modifications of this medium have been made to serve several purposes.

The present formulation complies with the description as per the Harmonized Method of the European Pharmacopoeia 6th ed. for the microbiological examination of non-sterile products. In the test for *Clostridia*,

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Geyer Beteiligungsgesellschaft mbH  
Amtsgericht Stuttgart / HRB-Nr. 252035  
Geschäftsführer: Lutz-Alexander Geyer / Thomas Roth

Columbia Agar is used to verify the identity of the colonies sub-cultured from Reinforced Clostridial Medium (Art. no. 9749) in anaerobic conditions. The European Pharmacopoeia Methodology recommends the sterile addition of gentamicin sulphate equivalent to 20 mg/l of gentamicin base where ever necessary, before pouring the plates.

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## QUALITY CONTROL

- Incubation temperature: 35 ±2.0 °C
- Incubation time: 24 h
- Inoculum: Practical range 50-100 CFU (productivity), according to ISO 11133:2014 and Ph. Eur. Spiral Plate Method.

Microorganism	Growth	Remarks
<i>Staphylococcus aureus</i> ATCC® 6538	Productivity >0.70	None
<i>Escherichia coli</i> ATCC® 8739	Productivity >0.70	None
<i>Clostridium sporogenes</i> ATCC® 19404	Productivity >0.70	None
<i>Bacillus subtilis</i> ATCC® 6633	Productivity >0.70	None
<i>Salmonella typhimurium</i> ATCC® 14028	Productivity >0.70	None

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## REFERENCES

- ELLNER, P.D., C.J. STOESEL, E. DRAGENFORD & F. VASSI (1966) A new culture medium for medical bacteriology. Am. J. Clin. Pathol. 45:502-504.
- EUROPEAN PHARMACOPOEIA 8.0 (2014) 8th ed. § 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms. Harmonised Method. EDQM. Council of Europe. Strasbourg.
- MacFADDIN, J. F. (1985) Media for Isolation-Cultivation-Identification- Maintenance of Medical Bacteria. Vol I. William & Wilkins. Baltimore. USA.
- USP 33 - NF 28 (2011) <62> Microbiological examination of non-sterile products: Test for specified microorganisms. Harmonised Method. USP Corp. Inc. Rockville. MD. USA.
- ISO 10272-1 Standard (2017) Microbiology of the food chain - Horizontal Method for detection and enumeration of *Campylobacter* spp. - Part 1: Detection method.
- ISO 10272-2 Standard (2017) Microbiology of the food chain - Horizontal Method for detection and enumeration of *Campylobacter* spp. - Part 2: Colony count-technique.

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## STORAGE

Keep tightly closed, away from light, in a dry place (4-30 °C).

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## SHELF LIFE

5 years from date of production.

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