

Columbia Broth Base

Tris/Cysteine-Buffered Enrichment Broth for Blood Culture & Fastidious Organism Recovery

PRODUCT IDENTIFICATION

Catalogue Number	AS-1181
Physical Form	Dehydrated powder
Final pH	7.5 ± 0.2 at 25 °C

OVERVIEW

Columbia Broth Base is a Tris/cysteine-buffered enrichment broth originally devised by Morello and Ellner (1969) as the liquid counterpart to Columbia Blood Agar Base, specifically to improve recovery of microorganisms — aerobic and anaerobic — from blood cultures. The formulation combines pancreatic digest of casein, proteose peptone, yeast extract and beef-heart digest with an increased concentration of L-cysteine, magnesium and ferrous salts, and a Tris buffer system, giving faster and more luxuriant growth than conventional general-purpose broths.

AuSaMicS Columbia Broth Base is manufactured under controlled conditions for consistent batch-to-batch performance, and is supplied with a Certificate of Analysis confirming physical, chemical and microbiological growth-promotion release testing.

KEY FEATURES & BENEFITS

- Tris/cysteine-buffered formulation supports faster, more luxuriant growth than simple peptone broths
- Suitable for aerobic, microaerophilic and anaerobic recovery
- Compatible with blood, serum, or SPS supplementation for blood-culture use
- Clear to light amber base allows easy visual turbidity assessment
- Each batch growth-promotion tested against defined ATCC indicator strains

TYPICAL APPLICATIONS

- Primary recovery of microorganisms from blood cultures (aerobic and anaerobic)
- Enrichment of fastidious pathogens such as *Haemophilus influenzae* and *Neisseria gonorrhoeae*
- Cultivation and maintenance of streptococci, staphylococci and Enterobacteriaceae
- Support medium for antimicrobial susceptibility testing workflows
- Base for selective enrichment broths in food microbiology testing



PRODUCT DESCRIPTION

PD-AS-1181 | Rev 01

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STORAGE & INTENDED USE

Storage (dehydrated)	15–30 °C, tightly closed, protected from moisture and light
Storage (prepared broth)	2–8 °C, sealed; use within 2–4 weeks
Intended Use	For laboratory research and microbiological quality control use only. Not for human or veterinary consumption. Not for diagnostic use without appropriate validation.

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