

E. coli colonies on Superpolymyxin

Detection and isolation of colistin resistant Gram-negative bacteria

- ◆ Screening medium that detects any Polymyxin-Resistant bacteria regardless of the mechanism and level of resistance
- ◆ Specially formulated to avoid swarming of *Proteus* spp. and to prevent contamination by Gram-positive bacteria and fungi
- ◆ Critical in human medicine for detecting carriers of colistin-resistant bacteria and containing clinical outbreaks
- ◆ Useful in veterinary medicine for surveillance surveys
- ◆ Easy to perform and highly sensitive

PRINCIPLE

This optimal screening medium is based on the eosin methylene blue (EMB) medium, which is selective for Gram-negative bacteria. It contributes to a presumption of species identification by differentiating lactose fermenters (dark blue-brown colonies) from non fermenters (colorless or light lavender). Moreover, differentiation of lactose fermenters is possible with *Escherichia coli* colonies displaying a characteristic metallic green sheen and *Enterobacter spp.* and *Klebsiella spp.* with brown, dark-centered, and mucoid colonies.

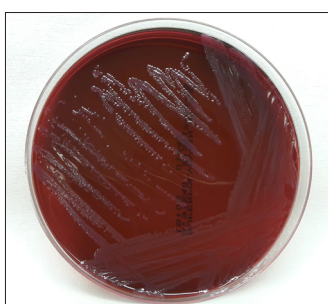
The optimal colistin concentration detects all polymyxin-resistant strains.

Daptomycin is used as an inhibitor of *Enterococcus* and *Staphylococcus* strains. Amphotericin B is used as an antifungal molecule.

METHODOLOGY

Samples: Bacterial colonies, rectal swabs

Procedure: Direct streaking from rectal swab transport medium, preparation of a 0.5 McFarland suspension broth needed for colonies / Incubation 24-48h at 37°C / Aerobic conditions



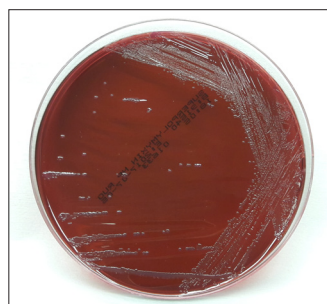
P. aeruginosa



E. coli



K. pneumoniae



A. baumannii

PRODUCT SPECIFICATIONS

- 2.5 months shelf life in ready-to-use format
- No need for a selective pre-enrichment medium
- Incubation 24-48h
- No equipment required

PRODUCT RANGE

REFERENCE	NAME	QUANTITY	SENSITIVITY	SPECIFICITY
23005	SUPERPOLYMYXIN	20 plates	Colonies / Rectal swabs 94% / 100%	Colonies / Rectal swabs 95.3% / 87.1%
23000	Rapid Polymyxin NP (<i>Enterobacteriaceae</i>)	10 tests	99.3%	94.9%
23001	Rapid Polymyxin <i>Pseudomonas</i>	10 tests	Pending evaluations	
23002	Rapid Polymyxin <i>Acinetobacter</i>	10 tests	100%	93.1%

DISTRIBUTOR CONTACT INFORMATION

Product not available in the US.
Please contact your sales representative for product availability in your country

 : ELITech Microbio (France)

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