Lactose-Fuchsin-Sulphite-Agar (Endo-Agar) (ENDO)

Shorthand symbol:	ENDO
Item number:	40-1130
Format:	Petri Dish, 90mm
Colour:	Light pink
Storage conditions:	Dry, in closed bag at 4-10°C - avoid exposure to light
Shelf-life:	2 Months
pH:	7.5 ± 0.2 bei 25°C

Intented use and fields of application

Moderately selective differential medium for the isolation and differentiation of Enterobacteriaceae.

The Fuchsin contained in the Lactose-Fuchsin-Sulphite agar is liberated by the reaction with acids and acethaldehydes, both are metabolites of lactose-fermenting bacteria. The liberated Fuchsin results in a red colour with a greenish metallic sheen of the colonies of coliform microorganisms, whereas the Endo agar is dyed similarily. In contrast, lactose-negative microorganisms appear in colourless colonies before the light pink background of the nutrient medium. Simultaneously, the fuchsin sulfite partially inhibits the growth of gram-positive bacteria.

Typical composition in g/l

in g per 1 Litre Nutrient medium	
Pancreatic-digest of Peptone (Meat, Gelatine)	7.7
Yeast Extract	2.3
Lactose	10.0
Dipotassium Hydrogen Phosphate	3.0
Potassium Dihydrogen Phosphate	0.5
New Fuchsin	0.15
Sodium Sulphite	1.0
Agar	10.0

*Adjusted as required to meet performance standards

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Microbiological quality control

The Microbiological Performance Test is carried out in accordance with the requirements of DIN EN ISO 11133.

Productivity
Incubation Conditions: 20±4 Hours at 36±2°C; Inoculum Concentration: 80–120 CFU

Organism	Type Strain	Specification	Colony morphology
Escherichia coli	ATCC 25922/WDCM 00013	50–130 %	Deep red colonies
Enterobacter aerogenes	ATCC 13048/WDCM 00175	50–130 %	Red to reddish, hemispherical, slimy colonies

Selectivity
Incubation Conditions: 20±4 Hours at 37±1°C; Inoculum Concentration: 10,000–1,000,000 CFU

Organism	Type Strain	Specification	Colony morphology
Staphylococcus aureus	ATCC 25923/WDCM 00034	Complete inhibition	-

Microbial Contamination
Incubation Conditions: 5–7 Days at 20–25°C and 5–7 Days at 30–35°C

Specification
No microbial contamination

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