

MOTILITY INDOLE LYSINE (MIL) MEDIUM

A semi-solid differential medium for the differentiation of bacteria on the basis of their motility, indole production, lysine deaminase and lysine decarboxylase activity.



Dehydrated media	
Code number:	500 g: MIL20500, 5 kg: MIL25000
Colour:	Beige
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	6,4 – 6,8

Direction: Suspend **36 g** in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121°C for 15 minutes.

Prepared media	
Bottled media:	100 ml: MIL30100, 500 ml: MIL30500
Tubed media:	100 x 12 mm: MIL40003 (3 ml)
Colour:	Purple
pH (25 °C):	6,5 – 6,7

Direction: Dispense the melted bottled media aseptically into test tubes. Media in tubes are ready to use.

FORMULA in g/l

Peptones	22,50
L-Lysine	10,00
Glucose	1,00
Ferric ammonium citrate	0,50
Bromocresol purple	0,02
Agar	2,00

Note: The typical formula can be adjusted to obtain optimal performance.

Storage conditions: Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled and tubed media protected from light at room temperature. Use before the expiry date on the label.

Quality control:

Test strains	Incubation temp: 37 °C	Reactions		Incubation time: 24 h	
		Lysine decarboxylase	Lysine deaminase	Motility	Indole
<i>Escherichia coli</i>	ATCC 25922	+	-	+	+
<i>Proteus mirabilis</i>	ATCC 29906	-	+	+	-
<i>Salmonella typhimurium</i>	ATCC 14028	+	-	+	-
<i>Shigella sonnei</i>	ATCC 25931	-	-	-	-

References: Reller and Mirrett (1975) J. Clin. Microbiol. 2: 247.

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