LYSINE IRON (LIA) AGAR

A differential medium for the differentiation of bacteria on the basis of their lysine decarboxylase activity and hydrogen sulphite production.

Dehydrated media	
Code number:	500 g: LIA20500, 5 kg: LIA25000
Colour:	Beige
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	6,5 – 6,9

Direction: Suspend **33 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. Allow to cool in slanted position to form slants with deep butts.

Prepared media	
Bottled media:	100 ml: LIA30100, 500 ml: LIA30500
Tubed media:	100 x 12 mm: LIA40003 (3 ml, slant with deep butt)
Colour:	Purple
pH (25 °C):	6,6 – 6,8

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

FORMULA in g/l

Peptones	8,00
L-Lysine	10,00
Glucose	1,00
Ferric citrate	0,50
Sodium thiosulphate	0,04
Bromocresol purple	0,02
Agar	13,50

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 media protected from light at room temperature. Store the tubed media protected from light at 2-8 °C. Use before the expiry date on the label.

Quality control:

Test strains	Incubation temp: 37 °C	**Reactions**		Incubation time: 24 h
		Slant	**Butt**	**H_2S**
Proteus mirabilis	ATCC 29906	red	yellow	-
Salmonella typhimurium	ATCC 14028	purple	purple	+
Citrobacter freundii	ATCC 8090	purple	yellow	+

References: Edwards and Fife (1961) Appl. Microbiol. 9: 478.

In vitro diagnostic – for professional use only!