

Lysine Decarboxylase Test

Complete kit to evidence lysine decarboxylation for enterobacteria identification.

• CONTENTS

Lysine Decarboxylase Test	30 tubes
Vaseline Oil	3ml reagent
1 Instruction sheet	

• PROCEDURE

1. Take the package from the fridge, take one or more tubes and leave it for a few minutes on the bench until it has reached at room temperature.
2. Suspend a well isolated bacterial colony of 24 hours incubation chosen from the culture medium With a sterile loop.
3. Add 2-3 drops of vaseline oil.
4. Put a top on the tubes and incubate them at 36 ± 1 °C for 4 hours up to 24 hours.

• INTERPRETATION

The lysine decarboxylase is an enzyme that attacks the carboxylic group of the lysine, with formation of amine cadaverine. Sugar in this medium is fermented by all the enterobacteria with consequent initial color change of indicator system from purple to yellow. The acid medium supports the amino acid decarboxylation with formation of cadaverine. The amines production alkalinize the medium and induces a new indicator color change from yellow to purple. The negative reaction is shown by the appearance of a yellow color in the tube, while the positive reaction is shown by a purple color.

• QUALITY CONTROL FOR USE

Each batch of Lysine Decarboxylase Test is submitted to the quality control using the following microorganisms.

Microorganism		Lysine Decarboxylation
<i>Escherichia coli</i>	ATCC 25922	+
<i>Klebsiella pneumoniae</i>	ATCC 27736	+
<i>Salmonella typhimurium</i>	ATCC 14028	+
<i>Proteus vulgaris</i>	ATCC 6059	-
<i>Citrobacter freundii</i>	ATCC 8090	-
<i>Shigella flexneri</i>	ATCC 12022	-



None E.col K.pne S.typ P.vul C.fre S.fle

- **STORE**

Store Lysine Decarboxylase Test at 2-6 °C in its original package. In such conditions the product is valid until the expiry date shown on the label. Do not use them beyond that date. Dispose of them if they show signs of deterioration.

- **PACKAGE**

Cat. No : MB-88014 Lysine Decarboxylase Test	30 tubes 3ml reagent
---	-------------------------