

TBL 023 - KOVAC'S REAGENT STRIPS

INTENDED USE

For indole testing.

PRODUCT SUMMARY AND PRINCIPLE

The various enzymes involved in the degradation of tryptophan to indole are collectively called as tryptophanase, a general term used to denote the complete system of enzymes. The presence of indole is detected by the Kovac's reagent strip which turns pink in the presence of indole. Kovac's Reagent Strips are sterile filter paper strips impregnated with Kovac's reagent. Peptone is used in the preparation of Peptone Water because of its high tryptophan content. When tryptophan is degraded by bacteria, indole is produced. Tryptone Water can also be used to detect indole production in the identification of members of coliform group.

INSTRUCTION FOR USE

Indole production by organisms is observed by inserting the Kovac's reagent strip between the plug and inner wall of the tube, above the inoculated Peptone Water and incubating at 35-37°C for 18-24 hours. Preparation of Kovac's reagent. Kovac's reagent is prepared by dissolving 10 gm of p-dimethyl aminobenzaldehyde in 150 ml of isoamyl alcohol and then slowly adding 50 ml of concentrated hydrochloric acid.

QUALITY CONTROL SPECIFICATIONS

Appearance : Filter paper strips of 70 mm x 5 mm.

INTERPRETATION

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours by inserting Kovac's Reagent Strips between the plug and inner wall of tube, above the inoculated Peptone Water

Microorganism	ATCC	Growth`	Indole
<i>Escherichia coli</i>	8739	Luxuriant	Positive reaction, pink colour at the lower portion of the strip
<i>Enterobacter aerogenes</i>	13048	Luxuriant	Negative reaction, no colour change

PACKAGING:

In pack size of 25 Strips/1 vl.

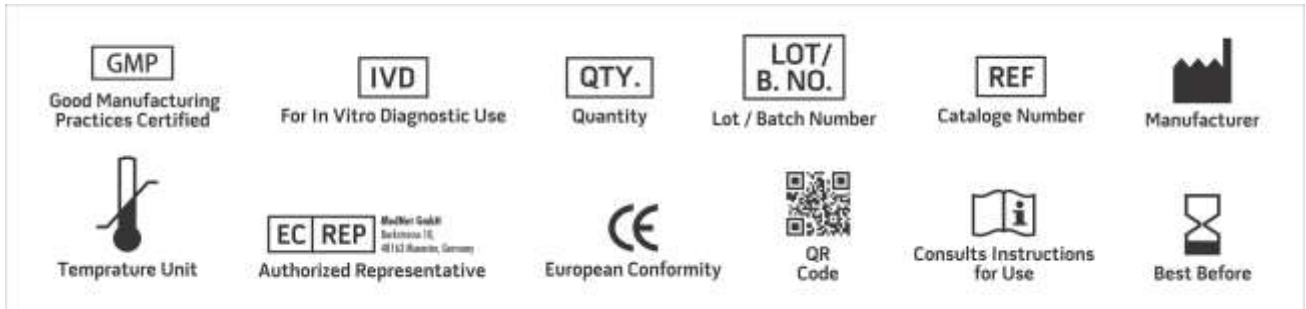
STORAGE

Store at 2 - 8°C. Use before expiry date on the label.



REFERENCES

- 1.Eaton A.D, Clesceri L.S., Greenberg. A.E, Rice E. W.(Eds) 2005, Standard Methods for the Examination of Water and wastewater, 21st ed., APHA, Washington DC.
- 2.MacFaddin J. F., 2000, Biochemical Tests for Identification of Medical Bacteria, 3rd ed., Philadelphia: Lippincott. Williams and Wilkins.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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