



DMACA Indole Discs

DD040

The DMACA Indole Discs are used for Indole test to determine the ability of an organism to split indole from the tryptophan molecule, and thus to aid differentiation between *Escherichia coli* from *Klebsiella*.

Directions

Place the DMACA Indole Disc on suspected colony from HiCrome UTI Agar (M1353) or HiCrome UTI Agar, Modified (M1418) plate. Observe for appearance of blue-purple colour within 10 - 30 seconds.

Principle And Interpretation

In the presence of oxygen, some bacteria are able to split tryptophan into indole and alpha-aminopropionic acid. The presence of indole can be detected by the addition of DMACA (p-Dimethylaminocinnamaldehyde) reagent indicated by formation of bluish-purple colour (1).

Quality Control

Appearance

Filter paper discs of 6 mm diameter bearing letters 'Dm' in continuous printing style.

Cultural response

The indole production by organisms was tested after an incubation of 18-24 hours at 35-37°C, using HiCrome UTI Agar (M1353).

Cultural Response

Organism	Indole production
Cultural response <i>Escherichia coli</i> ATCC 25922	Positive reaction, blue-purple colour formation
<i>Klebsiella pneumoniae</i> ATCC 13883	Negative reaction.
<i>Pseudomonas aeruginosa</i> ATCC 27853	Negative reaction.

Storage and Shelf Life

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

Reference

1. MacFaddin J. F., 1980, Biochemical Tests for Identification of Medical Bacteria, 2nd ed., Williams and Wilkins, Baltimore.

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