

Rapid Test Kit for Tryptophan Deamination

Intended Use

Rapid Test Kit for Tryptophan Deamination is used for differentiation of *Proteus* from Enteric Bacilli.

Summary

This test allows to differentiate members of the Proteaeae from other members of the *Enterobacteriaceae* by the ability of organisms in the genera within the Proteaeae to deaminate the NH₂ group of tryptophan to ammonia and energy. *Proteus*, *Providencia* and *Morganella* species possess this capability. This reaction is very useful in the taxonomy of *Enterobacteriaceae*.

Principle

This test determines the ability of bacteria to deaminate the amino acid tryptophan. Deamination is carried out by removing the NH₂ group of tryptophan resulting in the release of ammonia and energy. The addition of TDA reagent following incubation results in appearance of brown colour indicating presence of tryptophan deamination activity. No change in colour denotes a negative reaction.

Reagent

The Micropress® Rapid Test Kit for Tryptophan Deamination is a reagent set for laboratory use only.

The Micropress® Rapid Test Kit for Tryptophan Deamination comprises of:

1. 10 vials containing 1 mL medium each for tryptophan deamination activity.

Directions

Inoculation of Vials

1. Bring the medium/vial to room temperature.
2. Inoculate the vial with 100 µL of the above prepared inoculum.
3. Incubate at 35°C-37°C for 18-24 hours.
4. Observe for growth.
5. Add 2-3 drops of TDA Reagent.

Quality Control

Appearance of the Medium: Clear, colourless medium.

Cultural Response: Vials are inoculated with 100 µL culture suspension of following organism, incubated for 18-24 hours at 35°C-37°C. Cultural response observed on addition of 2-3 drops of TDA Reagent is as follows.

Organism (ATCC)	Results (Tryptophan Deamination Activity)
<i>Proteus hauseri</i> (13315)	+
<i>Klebsiella aerogenes</i> (13048)	-

Key: + = Brown colour; - = No change in colour

Interpretation of Results

1. Development of brown colouration indicates a positive test.
2. No colour change denotes a negative test.

Remarks

1. The Micropress® Rapid Test Kit for Tryptophan Deamination is an *In vitro* diagnostic kit for laboratory and professional use only. Not for medicinal use.
2. The Micropress® Rapid Test Kit for Tryptophan Deamination cannot be used directly on clinical specimens.
3. Do not use damaged or leaking kits. Avoid contact of reagents with skin and eyes.
4. Clinical samples and microbial cultures should be considered as pathogenic biohazard and handled accordingly. Good laboratory practices and hazard precautions must be observed at all times.
5. Always use pure culture and a heavy inoculum for testing.
6. The test is an aid to identification and is not a confirmatory test. Complete identification should include determination of Gram reaction, morphology, and other biochemical and serological tests.

Storage and Stability

1. Store the Micropress® Rapid Test Kit for Tryptophan Deamination at 2°C-8°C away from bright light.
2. Stability of the Micropress® Rapid Test Kit for Tryptophan Deamination is as per the expiry date mentioned on the label.

Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Reference

1. Data on file: Micropress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat. No.	Product Description	Pack Size
203180200001	Ready Prepared Kit	1 Kit (10Tests)

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.
