K710020 UREASE POSITIVE CONTROL

PRINCIPLE/DISCUSSION:

Urease impregnated discs provide a rapid and convenient method for the quality control of various urea containing media such as Christensen's Urea agar slants or rapid testing medium for *Helicobacter pylori*. It minimizes the need for maintaining stocks of live cultures such as *Proteus* and *Helicobacter* for the purpose of quality control in a microbiology lab. Results are visible within a few minutes, eliminating the need for overnight incubation.

ACTIVE INGREDIENTS / MATERIAL SAFETY DATA:

Each disc is impregnated with approximately 80 units of Urease enzyme with non-hazardous stabilizers.

STORAGE:

Store tightly sealed at 2-8C with desiccant provided.

MATERIALS REQUIRED:

Key Urease Positive Control discs are sold in packs of 30. The discs are to be used with any urease test. Follow the suggested materials for the urease test being performed.

PROCEDURE:

The discs should be white to cream colored. If discs have changed colors, do not use them.

For a slant: Place 1 disc directly onto the slant then incubate as normal for the medium in use.

For broth: Drop a disc directly into the tube then incubate.

For K650 or K1650 Urea tablet: Prepare the tube according to the instructions given with the tablet. Drop a disc directly into the prepared tube then incubate.

Rapid test for urease: (e.g. CLO test): Drop a disc into the test.

Crypto-urease Swab: Drop a disc into a tube. Add 5 drops of water. Drop the swab into the tube containing the disc.

Urease test disc: Drop a disc into a tube. Add 5 drops of water. Allow to stand a few seconds then use this solution to moisten disc.

INTERPRETATION:

Results are usually visible within 10 minutes or less. The development of a fuchsia-pink color is a positive test, confirming that the test is working. No color change indicates a negative test and the media being tested is not performing satisfactorily.

QUALITY CONTROL:

In house quality control is not required for the disc. If it is desired, perform QC of the discs by setting up simultaneously with a positive control organism. Use the appropriate ATCC strain as specified by the manufacturer of the test being used.

REFERENCES

(1) Bailey and Scott's Diagnostic Microbiology, 8th Editions,Chapters 9 and 27.

(2)"Structure of Jack Bean Urease" www.biochemj.org/bj/113/0669/1130669.pdf

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