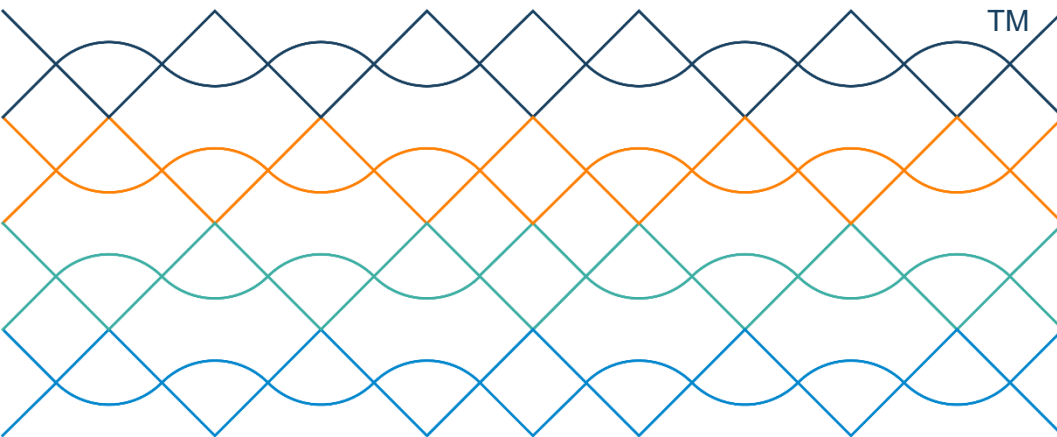


Application Notes

Campylobacter specific Chromogenic Assay Kit

Product Code: C-4550_KIT



Introduction

The Campylobacter specific Chromogenic Assay Kit is a rapid colorimetric test for the detection of the enzymatic hydrolysis of hippurate by *Campylobacter jejuni*. It is used, for example, to differentiate *Campylobacter jejuni* from *Campylobacter coli*. After the reaction, an orange to pink color develops within a few minutes in the test tube with hippuricase positive *Campylobacter jejuni* species.

Kit Components (50 Assays ; at 250 µl)

RC-0800	Component A, Reaction Buffer 11 mL, ready-to-use
RC-0801	Component B, Reaction Reagent 1.4 mL, read-to-use
RC-0802	Component C, Reaction Mixture 1.1 mL, read-to-use
RC-0803	Component D (8.8x concentrated), 0.6 mL

Dilute component D with ultrapure water in a suitable tube. e.g. 10 µL of component D in 78 µL ultrapure water

Storage

Stored at +2 to +8 °C.

Materials required but not supplied

Sterile Inoculating loop

Incubator

Sterile Plastic test tubes (e.g. 1.5 mL Eppendorf Tubes)

Ultrapure Water

Recommended Procedure

1. Place 200 µL of Component A in a sterile plastic test tube.
2. Inoculate the tube with loopful of colonies from an overnight culture (48h, 37°C) and emulsify in the 200 µL buffer (component A), ensuring that the suspension is homogenous.
3. Add 25 µL of Component B to the homogenized cell suspension and mix well.
4. Incubate the test tubes at 37°C for 90 minutes.
5. Add 20 µL of Component C to each test tube and mix well.
6. Add 5 µL of diluted Component D into the test tube and mix well.
7. Observe for a pink color development over the next 5 to 15 minutes at room temperature (20 to 25°C).
 - A positive result is the development of an orange to pink color depending on the cell concentration .
 - It is recommended that the inoculum be derived from a solid agar medium, such as a sheep blood agar, grown under microaerobic conditions.

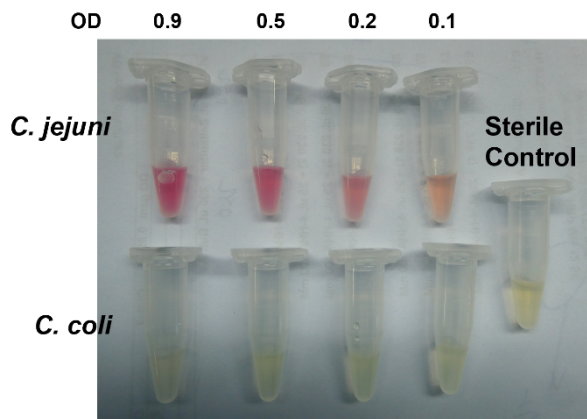
Interpretation of Results

Positive Test (*C. jejuni*, Hippuricase positive):

Orange to pink color development

Negative Test (*C. coli*, Hippuricase negative):

Yellowish color or no color change



Reference:

WO 2023/203217 A1 (Patent Pending)

© BIOSYNTH
2023-12-15