



Barritt Reagent B (for VP test)

R030

Intended use

Barritt Reagent B (for VP test) is used in Voges-Proskauer test for detection of acetoin production by bacterial culture.

Composition**

Ingredients

Potassium hydroxide	40.000 gm
Distilled water	100.000 ml

**Formula adjusted, standardized to suit performance parameters

Directions

Grow test culture in MR-VP Medium (M070). Add 0.2 ml (2 drops) of Reagent A and 0.2 ml (2 drops) of Reagent B (R030) for 10 ml medium. Shake tubes gently for 30 seconds to 1 minute to expose the medium to atmospheric oxygen in order to oxidize the acetoin (acetylmethylcarbinol) so as to obtain a colour reaction. Allow tube to stand at least 10 to 15 minutes.

Principle And Interpretation

The principle of the test is based on the oxidation of acetoin to acetophenone in the presence of atmospheric oxygen. The reaction is catalyzed by the enzyme acetoin dehydrogenase (ADH) which is produced by certain bacteria. The reaction is as follows: Acetoin + O₂ → Acetophenone + H₂O. The reaction is coupled with the reduction of a dye, which results in a color change from colorless to pink or red. The color change is observed after the addition of a small amount of a dye solution (Barritt's reagent B) to the culture. The color change is observed after the addition of a small amount of a dye solution (Barritt's reagent B) to the culture.

Type of specimen

The specimen is any isolated colony on primary or subculture plates.

Specimen Collection and Handling

1. For clinical samples follow appropriate techniques for handling specimens as per established guidelines (1,2).
 2. For food and dairy samples, follow appropriate techniques for sample collection and processing as per guidelines (3,5).
 3. For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards. (4)
- After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

In Vitro diagnostic use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations

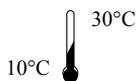
1. Increased exposure of organisms to atmospheric oxygen in the microtechnique decrease the incubation period.
2. False-positive VP results may occur if VP tests are read beyond one hour following the addition of reagents. A copper like color may develop, resulting in a potential false positive interpretation.
3. With prolonged incubation, some VP positive organisms can produce acid condition in the medium, yielding weak positive reaction or false negative VP reaction.
4. Shaking the tubes enhance VP reaction.

IVD

In vitro diagnostic medical device



CE Marking



Storage temperature



Do not use if package is damaged

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