



## PYR Reagent

R043

The PYR reagent is used for detection of Pyrrolidonyl arylamidase enzyme activity of  $\beta$ -hemolytic Streptococci.

### Composition\*\*

#### Ingredients

N,N -Dimethylaminocinnamaldehyde	1.0gm
Hydrochloric acid (concentrated)	1.0ml
Distilled water	99.0ml

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

1. Inoculate test culture on PYR Agar (M1489) and incubate at 35-37°C for 18-24 hours.
2. Add 1 drop of PYR Reagent (R043) directly to suspected colony
3. Observe for colour change after 2 minutes
4. Formation of red colour indicates PYR positive organism.

### Principle And Interpretation

The PYR reagent is used for detection of Pyrrolidonyl arylamidase enzyme activity of  $\beta$ -hemolytic streptococci. The chromogenic mixture of PYR Agar (M1489) serves as a substrate for PYR enzyme. The PYR reagent reacts with  $\beta$ -naphthylamine to form a red coloured Schiff's base indicating a positive reaction.

### Quality Control

#### Appearance

Yellow coloured solution.

#### Clarity

Clear solution without any particles.

#### Cultural Response

Biochemical identification was carried out by adding PYR reagent (R043) in 18-24 hours old culture grown in PYR Agar (M1489) or in PYR Test well of KB005 or KBD005.

#### Cultural Response

Organism	Growth	PYR Test
<i>Escherichia coli</i> ATCC 25922	Good-luxuriant	Negative reaction
<i>Enterococcus faecalis</i> ATCC 29212	Good-luxuriant	Positive reaction (red colouration around colony)

### Storage and Shelf Life

Store below 30°C in tightly closed container and away from bright light. Use before expiry date on label.

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