



WL DIFFERENTIAL AGAR KIT FOR THE DETECTION OF BRETTANOMYCES YEASTS

PRODUCT

Product no. 4A200, for 10 tests.

PRINCIPLE OF MEASUREMENT

Under aerobic incubation, this medium enables the detection of *Brettanomyces* yeasts, as well as *Acetobacter* and *Gluconobacter* bacteria.

This agar is appropriate for both direct spread culture and membrane filtration & culture techniques.

CONTENTS

The kit includes 10 x WL Differential Agar plates.

Store in the fridge at 4°C.

The plates come sealed to prevent dehydration. They should be stored inverted (lids facing downward) to prevent condensation.

If stored correctly, WL Differential Agar should keep for 2 months.

Failure to store the plates at the recommended temperature will significantly reduce their shelf life.

SAFETY

Not classified as hazardous according to criteria of NOHSC.

PROCEDURE

Plates should be brought to ambient temperature and be free of condensed water prior to use.

Once inoculated, and completely dry, invert the plates to prevent condensation from dripping onto the agar surface during incubation.

Incubate between 28°C to 30°C. Check for growth at 3 days, 6 days, and 10 days' incubation.

- *Acetobacter* and/or *Gluconobacter* colonies typically grow within 3 days incubation.
- *Brettanomyces* colonies may take between 3 to 10 days to grow.

INTERPRETATION OF RESULTS

Brettanomyces colonies are typically cream coloured, sometimes with a tint of green.

Colonies range in size from 1 to 4 mm in diameter. Under aerobic conditions, the colonies will produce acetic acid, changing the colour of the WL differential agar to yellow.

Acetic acid bacteria colonies (*Acetobacter* and *Gluconobacter*) are typically dark green or brown, and less than 1 mm in diameter. They are easily distinguished from *Brettanomyces*, due to their shorter incubation period. AAB colonies will also produce acetic acid, changing the colour of the WL differential agar to yellow.