

PP2136 WLDA AGAR

FORMULA*

* Formulation may be adjusted and/ or supplemented to meet performance criteria

| | | |
|--------------------------------|---------|--------------|
| Yeast Extract | 4.0 | gm per litre |
| Tryptone | 5.0 | |
| Glucose | 50.0 | |
| Potassium Dihydrogen Phosphate | 0.55 | |
| Potassium Chloride | 0.425 | |
| Calcium Chloride | 0.125 | |
| Magnesium Sulphate | 0.125 | |
| Ferric Chloride | 0.0025 | |
| Manganese Sulphate | 0.0025 | |
| Bromocresol Green | 0.022 | |
| Tween 80 | 1.0 | |
| Agar | 15.0 | |
| Cycloheximide | 0.00085 | |

pH[^] 5.5 ± 0.2
([^] at time of manufacture)

DESCRIPTION

For the enumeration of microbiological flora in brewing and fermentation products. Cycloheximide, when added to suppress yeast growth, the medium becomes selective for bacterial contaminants of yeast cultures (1).

QUALITY CONTROL

Organisms:

| | |
|--------------------------|---------------------------|
| <i>Saccharomyces sp.</i> | MVQC 0069 |
| <i>Saccharomyces sp.</i> | MVQC 0070 |
| <i>Brettanomyces sp.</i> | MVQC 0071 |
| <i>E.coli</i> | WDCM 00013 (ATCC® 25922™) |

Microbial Load Evaluation:

Sample size and acceptance criteria determined in accordance with ASM Guidelines (2).

Incubated at 23°C for 7 days.

Inoculum:

Brettanomyces sp. and ***E. coli***: - inoculate plates with a standard 10µL loopful of organism suspension containing 10⁶ organisms per mL. Fractionate plates.

Saccharomyces sp. – inoculate plates with 0.1 mL of a 36-hour Sabouraud Broth culture containing approx. 10⁸ organisms per mL. Spread inoculum over the surface of the plate.

Incubation:

5 days / 30°C ± 2°C / aerobic.

Expected Results:

| | |
|------------------------------------|-------------------------------|
| <i>Saccharomyces sp.</i> MVQC 0069 | Inhibited |
| <i>Saccharomyces sp.</i> MVQC 0070 | Inhibited |
| <i>Brettanomyces sp.</i> | Growth, white/yellow colonies |
| <i>E.coli</i> | Growth, cream/yellow colonies |

Also Checked & Recorded

1. Batch number
2. Colour
3. Clarity
4. Gel strength
5. pH
6. Correctly Labelled
7. Agar Depth

STORAGE

A shelf life of 13 weeks from date of manufacture applies, when stored at 2°-8°C, unopened in its original packaging, and away from direct light.

REFERENCES

1. Bridson, E.Y. The Oxoid Manual, 9th Edition. 2006. Oxoid Limited, Basingstoke.
2. *Guidelines for Assuring Quality of Food & Water Microbiological Culture Media*. Current edition. Culture Media Special Interest Group, Australian Society for Microbiology, Inc.

WDCM is the World Data Centre for Microorganisms. See <http://refs.wdcm.org/home.htm> for more information.

ATCC is the American Type Culture Collection. Trade name and catalogue numbers are trademarks of the ATCC. www.atcc.org.

Inoculum levels as described in QSP1105 are in accordance with the ASM Guidelines and with AS5140/ ISO11133.

Shelflife determination is in alignment with the described parameters of AS5140/ ISO11133.

Dispose of all microbiological media –used or expired – in accordance with Australian Standard AS2243.3.