

**PP2179 MYGP + COPPER SULPHATE AGAR PLATES**

**FORMULA**

Peptone	5.0	gm per litre
Malt Extract	3.0	
Yeast Extract	3.0	
Glucose	10.0	
Agar	20.0	
Copper Sulphate 5H <sub>2</sub> O	0.625	

pH 4.7 ± 0.2

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



**DESCRIPTION**

This medium, based on the formulation of Taylor and Marsh (1) is designed for the detection and enumeration of wild yeasts in brewing products where high counts of culture yeasts are expected. Wild yeasts appear as 2-3 diameter colonies, light cream-brown in colour with a buff surface, and undulating perimeter.

This medium, as listed by the American Society of Brewing Chemists (2), has been demonstrated to outperform other media in identification of wild yeasts in lager breweries (3).

**QUALITY CONTROL**

ORGANISMS: ***Brettanomyces sp.*** (MVQC 0071), ***Saccharomyces "B"*** (MVQC 0069).

SAMPLE NUMBER: Sample size is determined in accordance with ASM Guidelines (4).

STERILITY: Those plates not used for bacteriological testing and other quality assurance procedures must be incubated at 23°C for 7 days after which they are examined for sterility.

INOCULUM: ***Brettanomyces sp.***: - Inoculate plates with a standard 2mm loopful of 36hr organism suspension containing approximately 10<sup>8</sup> cfu per mL. Fractionate plates.

***Saccharomyces spp.***:- Inoculate plates with 0.1 mL of a 36hr Sabouraud's Broth culture containing 10<sup>8</sup> organisms per mL. Spread inoculum over the surface of the plate.

INCUBATION: 5 days / 30°C / aerobically.

EXPECTED RESULTS:

<b><i>Brettanomyces sp.</i></b>	4 - 5+ Growth
<b><i>Saccharomyces "B"</i></b>	<1+ inhibited

ALSO CHECKED AND RECORDED

1. Batch number correct
2. Colour
3. Clarity
4. Gel strength
5. Final pH 4.7 ± 0.2
6. Sterility
7. Correctly labelled: MYGP + Copper

**STORAGE:**

A shelf life of 8 weeks applies when this product is stored at 2° - 8°C in its original packaging.  
Store plates away from direct sunlight and overhead lighting

**REFERENCES**

- 1 Taylor, G.T., and A.S. Marsh. 1984. J. Inst. Brew. **90**: 134-145.
2. Anonymous. 1992. Amer. Soc. Brew. Chem. J. **50**: 153-157.
3. Van der Aa Kuhle, A., and L. Jespersen. 1998. Int. J. Food Microbiol. **43**: 205-213.
4. *Guidelines for Assuring Quality of Medical Microbiological Culture Media*. 2<sup>nd</sup> edition 2012. Culture Media Special Interest Group, Australian Society for Microbiology