PP2161 CFC AGAR

FORMULA*

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

Gelatin Peptone	16.0	gm per litre
Casein Hydrolysate	10.0	
Potassium Sulphate	10.0	
Magnesium Chloride	1.4	
Agar	11.0	
Glycerol	10.0	ml per litre
Cetrimide	10.0	mg per litre
Fucidin	10.0	
Cephaloridine	50.0	

pH^ 7.1 ± 0.2
(^ at time of manufacture)

DESCRIPTION(1)

This medium is recommended for the selective isolation of *Pseudomonas* spp**.** . The use of a modified 'Kings A medium', which contains magnesium chloride and potassium sulphate to enhance pigment production, is combined with a selective supplement to allow the isolation of all pigmented and non-pigmented psychrophilic pseudomonads.
The CFC supplement contains a reduced concentration of cetrimide, 100µg/mL reduced to 10µg/mL thus allowing all species of the above pseudomonads to grow. To further enhance the selectivity of the medium, cephaloridine (50µg/mL) and fucidin (10µg/mL) are added.
This medium is cited in Australian standard methods (3).

QUALITY CONTROL

Organisms:

P. fluorescens	WDCM 00115 (ATCC®13525™)
E. coli	WDCM 00013 (ATCC®25922™)
P. fragi	WDCM 00016 (ATCC®4973™)

Microbial Load Evaluation:
Sample size and acceptance criteria determined in accordance with ASM Guidelines (2).
Incubated at 30°C for 3 days.

Inoculum:
As described in TFS MBD QSP1105, inoculate the specified test organism using 50-150cfu (for quantitative measure), and non-target organism using working culture A (≥10^4 cfu).
Control plates are inoculated in parallel for the quantitative recovery calculations.

Incubation:
48 hours / 27°C ± 2°C / aerobic.

Expected Results:

P. fluorescens	≥50% recovery, growth
P. fragi	≥50% recovery, growth
E. coli	Inhibited

Also Checked & Recorded

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

STORAGE

A shelf life of 12 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.
2. *Guidelines for Assuring Quality of Food & Water Microbiological Culture Media*. Current edition. Culture Media Special Interest Group, Australian Society for Microbiology, Inc.
3. AS 5013.21:2017 (ISO13720) *Food microbiology meat and meat products- Enumeration of presumptive pseudomonas spp.* 2017. Standards Australia, Sydney.

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.

Expected results are in accordance 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.