

D5128 D2ANX Medium

Crop: **Tomato (*Lycopersicon lycopersicum*)**

Disease: **Bacterial canker**

Pathogen: ***Clavibacter michiganensis* subsp. *michiganensis***

BEFORE

AFTER



D2ANX is a semi-selective medium, which is used to detect *Clavibacter michiganensis* subsp. *michiganensis* (*Cmm*). This medium, with a relatively low selectivity, is often used in combination with the more selective mSCM medium (S5127). Despite the slow growth of *Cmm* colonies the evaluation of plates can already be performed after 6-7 days of incubation. On mSCM, the growth is more slow and *Cmm* colonies can only be seen after about 9-10 days. On D2ANX, *Cmm* colonies are glistening, yellow and mucoid.

COMPOSITION OF MEDIA D5128: D2ANX MEDIUM

COMPOUND	GRAM/LITER
MgSO ₄ anhydrous	0.15
Glucose anhydrous	10.0
Yeast Extract	2.0
Agar	18.0
Tris HCl	1.2
Boric acid (H ₃ BO ₃)	1.0
Ammonium chloride (NH ₄ Cl)	1.0
Casein hydrolysate	4.0

METHOD

- Dissolve 37.3 grams of ingredients in distilled water, adjust volume to 1000 ml and adjust pH to 7.4.
- Autoclave the solution (121 °C, 15 psi, 15 minutes).
- Prepare sterile antibiotic solutions and add the following amounts per liter medium:
 - 28 mg nalidixic acid (N0134)
 - 100 mg cycloheximide (C0176)
 - 10 mg polymixin B sulphate (P0145)
- Allow solutions to cool down to ca. 45 °C – 50 °C and add antibiotics.
- Mix gently to avoid air bubbles and pour plates (15-20 ml per 9.0 cm plate).
- R: 36/37/38

Reference:

Kado, C.I., and Heskett, M.G. 1970. Selective media for the isolation of *Agrobacterium*, *Corynebacterium*, *Erwinia*, *Pseudomonas* and *Xanthomonas*. *Phytopathology* 60:969-976.

D5128 D2ANX MEDIUM

D5128.1000 1 kg

For prepared and ready to use plates of this medium contact:
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