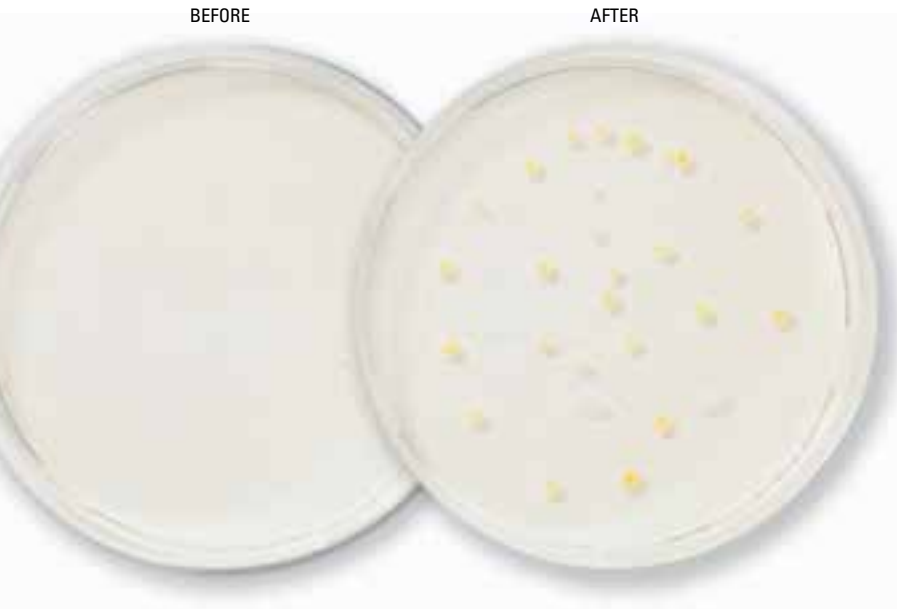


C5140 CKTM Medium

Crop: **Pepper (*Capsicum annuum*)**
Tomato (*Lycopersicon lycopersicum*)

Disease: **Bacterial spot**

Pathogen: ***Xanthomonas campestris* pv. *vesicatoria***



CKTM medium is a semi-selective medium, which is used in combination with modified TMB medium (T5126) or MXV medium (M5131) to detect *Xanthomonas campestris* pv. *vesicatoria* (*Xcv*) in seeds of pepper and tomato. *Xcv* colonies on plates containing CKTM media are yellow, mucoid, mounded and round.

COMPOSITION OF MEDIA
C5140: CKTM MEDIUM

COMPOUND	GRAM/LITER
Soya Peptone	2.0
Tryptone	2.0
Glucose anhydrous	1.0
L-glutamine	6.0
L-histidine	1.0
Di-ammonium hydrogen phosphate ((NH ₄) ₂ HPO ₄)	0.8
Potassium dihydrogen phosphate (KH ₂ PO ₄)	1.0
Magnesium sulfate anhydrous (MgSO ₄ anh)	0.2
Agar	15.0

METHOD

- Dissolve 29.0 grams of the ingredients in distilled water and adjust volume to 900 ml.
- Dissolve 10 ml of Tween 80 in distilled water and adjust volume to 100 ml.
- Autoclave the solutions separately (121 °C, 15 psi for 15 minutes).
- Prepare sterile antibiotic solutions and add the following amounts per liter medium:
 - 65 mg cephalixin monohydrate (C0110)
 - 12 mg 5-fluorouracil (F0123)
 - 0.4 mg tobramycin sulphate (T0153)
 - 100 mg cycloheximide (C0176)
 - 100 mg bacitricin (B0106)
 - 10 mg neomycin sulphate (M0135)
- Allow medium to cool down to ca. 45 °C – 50 °C, mix the solutions and add antibiotics.
- Mix gently to avoid air bubbles and pour plates (15-20 ml per 9.0 cm plate).

Reference:

Sijam, K., Chang, C.J. and Gitaitis, R.D. 1992. A medium for differentiation tomato and pepper strains of *Xanthomonas campestris* pv. *vesicatoria*. *Canad. J. Plant Pathol.* 90: 208-213.

C5140 CKTM MEDIUM

C5140.1000 1 kg

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