

# T5132

## mTBM Medium

Crop: **Carrot (*Daucus carota*)**

Disease: **Bacterial leaf blight**

Pathogen: ***Xanthomonas hortorum* pv. *carotae***



mTBM Medium (modified TBM medium) is used to detect *Xanthomonas hortorum* pv. *carotae* (*Xcca*). Other semi-selective media for *Xanthomonas campestris* pv. *carotae* are mKM Medium (K5125) and mD5A Medium (D5124). The colonies of *Xanthomonas hortorum* pv. *carotae* on mTBM plates are white or yellow or white-yellow, glistening round, convex with entire margins and surrounded by a large clear zone of casein hydrolyses.

### COMPOSITION OF MEDIA T5132: mTBM MEDIUM

COMPOUND	GRAM/LITER
Agar	15.0
Boric acid (H <sub>3</sub> BO <sub>3</sub> )	0.3
Potassium bromide (KBr)	10.0
Peptone	10.0

### METHOD

- Dissolve 35.3 grams of ingredients in distilled water and adjust volume to 800 ml and adjust pH to 7.4.
- Dissolve 10 ml of Tween 80 in distilled water and adjust to 100 ml.
- Dissolve 10 g of skim milk powder in distilled water and adjust volume to 100 ml.
- Autoclave the solutions separately (121 °C, 15 psi, 15 minutes).
- Prepare sterile antibiotic solutions and add the following amounts per liter medium:
  - 20 mg nystatin (N0138)
  - 65 mg cephalixin monohydrate (C0110)
  - 12 mg 5-fluorouracil (F0123)
- Allow solution to cool down to ca. 45 °C – 50 °C and mix the solutions.
- Mix gently to avoid air bubbles and pour plates (20 ml per 9.0 cm plate).

### Reference:

McGuire, R.G., Jones, J.B. and Sasser, M. 1986. Tween medium for semiselective isolation of *Xanthomonas hortorum* pv. *vesicatoria* from soil and plant material. *Plant Dis.* 70; 887 – 891.

### T5132 mTBM MEDIUM

T5132.1000

1 kg

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