

Product Information Sheet

X8454 XTS Medium

Properties

Form:	Powder
Appearance:	Off-White to Tan
Application:	Plant Pathology, Seed Testing, Microbiology
Solubility:	Water
Typical Working Concentration:	28.0 g/L
Storage Temp:	Room Temperature
Storage Temp of Stock Solution:	2-6°C, not recommended for long periods.
Other Notes:	Contains animal-derived components. Requires aseptic addition of antibiotics (see below) after autoclaving in order to be a complete selection medium for <i>X. campestris</i> .

Formula (mg/L)

Meat Extract	3000
Peptone	5000
Agar	15000
Glucose	5000

Application Notes

Originally developed by Schaad & Forster (1985) to test wheat seeds for the presence of *X. campestris*, this medium is also referred to as XTS Agar. This medium is semi-selective and is used for the selection of *Xanthomonas campestris* pv. *translucens*. Requires the addition of the antibiotics cycloheximide (200 mg/L), gentamycin (8 mg/L), and cephalixin (10 mg/L) to be selective for *X. campestris* (Schaad & Forster 1985). According to Claflin & Ramundo (1987), some strains grow poorly with a concentration of 8 mg/L of gentamycin. They decreased the concentration to 2 mg/L of gentamycin to enhance recovery of the pathogen from wheat seeds.

Product numbers of antibiotics suggested for this medium:

(Products are listed as powders and solutions for convenience).

Prod #	Prod Description	Prod. #	Prod Description
C1989	Cycloheximide (Powder)	C1796	Cycloheximide Solution (100 mg/mL)
G570	Gentamycin Sulfate (Powder)	G3350	Gentamycin Solution (50 mg/mL)
C1970	Cephalixin (Powder)	C2112	Cephalixin Solution (100 mg/mL)

References

- Schaad NW & Forster RL (1985) A semiselective agar medium for isolating *Xanthomonas campestris* pv. *translucens* from wheat seeds. *Phytopathology* 75: 260-263.
- Claflin, L.E. & Ramundo, B.A. (1987) Evaluation of the dOI-immunobinding assay for detecting phytopathogenic bacteria in wheat seeds. *Journal of Seed Technology*, 11, 5261.

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