

Product Information Sheet

T7968 Trehalose Dihydrate

Synonyms: Trehalose,
alpha-D-Glucopyranosyl-alpha-D-glucopyranoside
CAS: 6138-23-4
Formula: C₁₂H₂₂O₁₁*2H₂O
Mol. Weight: 378.33

Properties

Form: Powder
Appearance: White
Solubility: Soluble in Water
Application: Microbiology, Phytopathology, Seed Testing
Storage Temp: Room Temperature
Typical Working Concentration: Varies, should be determined by end user.

Application Notes

Generally used as a carbon source. Use with PhytoSelect Basal Medium (Prod# P6800) in combination with antimicrobials (see tabel below) to create a selection medium for *Pectobacterium carotovorum*. The complete selection medium with carbon source and antimicrobials was developed by Kawanishi et al. (2011) and named SMART-Pca.

Combine the following products to make 1L of SMART-Pca medium for *P. carotovorum* (Kawanishi et al. 2011):

Prod #	Name of Component: Amount to add to make 1L
P6800	PhytoSelect Basal Medium: 1L (24.927 g)
T7968	Trehalose: 1.0 g
*C1989 OR *C1796	Cycloheximide: 50 mg OR Cycloheximide Soln (100 mg/mL) – add 0.50 mL
*H276	CTAB (Cetrimonium): 10 mg
*C1970 OR *C2112	Cephalexin: 10 mg OR Cephalexin Soln (100 mg/mL) – add 0.10 mL

*All antibiotic powders or solutions should be aseptically added to the medium after autoclaving and allowing to cool

Also recommended in the International Seed Testing Association's (ISTA) Rules for Seed Testing Handbook, in method 7-020 to prepare MKM agar for selection of *Xanthomonas hortorum* pv. *carotae* on *Daucus carota* (ISTA 2011).

References

ISTA (2011) [Annexe to Chapter 7: Seed Health Methods](#).

Kawanishi T, T. Shiraishi, Y. Okano, K. Sugawara, M. Hashimoto, K Maejima, K Komatsu, S Kakizawa, Y Yamaji, H Hamamoto, K Oshima, S Namba (2011) New Detection Systems of Bacteria Using Highly Selective Media Designed by SMART: Selective Medium-Design Algorithm Restricted by Two Constraints. PLoS ONE Volume 6, Issue 1.

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