

Product Information Sheet

C1842 Cellobiose

Synonyms: 4-O-β-D-Glucopyranosyl-D-glucose
 CAS: 528-50-7
 Formula: C₁₂H₂₂O₁₁
 Mol. Weight: 342.30

Properties

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

Application Notes

Cellobiose is used in microbiological and phytopathological media as a carbon source for selection of specific microbes. It is used in multiple selection media, including mD5A Medium (Prod # M5516) and CCM medium. The table below is an example of the use of cellobiose as a carbon source in a selection medium.

The semi-selective medium designated as Cefazoline-Cellobiose-Methionine (CCM) medium is intended to select for *Xanthomonas axonopodis* pv. *vignicola* and contains the following components per liter (Wydra et al., 2004):

Product #	Product Name	Amount/L
P705	Dipotassium Phosphate, (K ₂ HPO ₄)	1.34 g/L
P846	Monopotassium Phosphate (KH ₂ PO ₄)	0.4 g/L
M150	Magnesium Sulfate (Anhydrous) (MgSO ₄)	0.3 g/L
B210	Boric Acid (H ₃ BO ₃)	0.2 g/L
A109	Ammonium Chloride	1.0 g/L
C1842	Cellobiose	10.0 g/L
M539	Methionine	1.0 g/L
A111/A296	Agar	14.0 g/L
C1989/C1796	*Cycloheximide Powder/ Solution (100 mg/mL)	0.2 g/L or 2.0 mL/L
N/A	*Cefazoline	0.010 g/L
Adjust to pH 7.2		
*Add aseptically after autoclaving medium and allowing to cool.		

References

Wydra K, G Khatri-Chhetri, A Mavridis, R Sikirou, K Rudolph (2004) A diagnostic medium for the semi-selective isolation and enumeration of *Xanthomonas axonopodis* pv. *vignicola*. European Journal of Plant Pathology, 110(10) pp. 991-1001.

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