Cetrimide
PRODUCT DATA SHEET

issue date 01/06/2020

Product Name:	Cetrimide
Product Number:	C062
CAS Number:	8044-71-1
Molecular Formula:	$C_{17}H_{38}BrN$
Molecular Weight:	336.39
Form:	Powder
Appearance:	White or off-white crystalline powder
Solubility:	freely soluble in water
pH:	3.9-4.3
Storage Conditions:	2-8 °C
Description:	Cetrimide is a bactericidal cationic surfactant used against Gram positive bacteria. It is freely soluble in water. This product is considered a dangerous good. Quantities above 1 g may be subject to additional shipping fees. Please contact us for questions.
Microbiology Applications	Cetrimide is often used in selective media for Pseudomonas aeruginosa. Enterococcus faecalis can grow as a biofilm in the root canals of teeth. Using a MBEC-high-throughput device to study these types of biofilms, authors found that an irrigating solution of Cetrimide was able to eradicate the bacteria (Arias-Moliz et al, 2010).
Plant Biology Applications	Cetrimide is an active ingredient in Cetavlon, a detergent and antiseptic used in plant/tree tissue culture prior to surface sterilization. A commercially important tropical fruit tree in India is the blackplum (Syzygium cuminii L). Seeds were treated with 1% (v/v) Cetavlon prior to surface sterilization (Yadav, 1989). Newly developed leaves from apical portions of Guava plants were treated with 1% (v/v) Cetrimide prior to surface sterilization (Amin, 1986).
References:	Amin MN and Jaiswal VS (1987) Rapid clonal propagation of guava through *in vitro* shoot proliferation on nodal explants of nature trees. Plant Cell Tiss Organ Cult. 9:235-243 Brown VI and Lowbury EJL (year) Use of an improved cetrimide agar medium and other culture methods for *Pseudomonas aeruginosa*. J. Clin. Path. 18(6):752-756 Arias-Moliz MT, Ferrer-Luque CM, Gonzalez-Rodriguez MP, Verderrama MJ and Baca P (2010) Eradication of Erterococcus faecalis biofilms by Cetrimide and Chlorhexidine. J. Endodontics. 36(1):87-90 Yadav U, Lal M and Jaiswal VS (1990) In vitro micropropagation of the tropical fruit tree *Syzygium cuminii* L.. Plant Cell Tiss Organ Cult 21(1):87-92