

Product Name: Cetyltrimethyl Ammonium Bromide

Product Number: C063

CAS Number: 57-09-0

Molecular Formula: $C_{19}H_{42}BrN$

Molecular Weight: 364.45

Description: Cetyltrimethyl Ammonium Bromide (CTAB) has a wide variety of bioactivity. In a laboratory setting, it is favored for the extraction of DNA from plants. CTAB is able to bind to polysaccharides and keep them from affecting the DNA purity. Due to its antiseptic activity against bacteria and fungus, it can be found in cosmetics and other hygiene products in the home.

CTAB is soluble in water, and freely soluble in alcohol.

This product is considered a dangerous good. Quantities above 1 g may be subject to additional shipping fees. Please contact us for specific questions.

References: Allen, G. C., Flores-Vergara, M. A., Krasynanski, S., Kumar, S., & Thompson, W. F. (2006). A modified protocol for rapid DNA isolation from plant tissues using cetyltrimethylammonium bromide. *Nature Protocols*, 1(5), 2320-2325. doi:10.1038/nprot.2006.384

Grassi, C. (2009). The Antibacterial Efficiency Of Cetyltrimethylammonium Bromide. *Acta Pathologica Microbiologica Scandinavica*, 31(1), 1-4. doi:10.1111/j.1699-0463.1952.tb05047.x

Ito, E., Yip, K. W., Katz, D., Fonseca, S. B., Hedley, D. W., Chow, S., . . . Liu, F. (2009). Potential Use of Cetrimonium Bromide as an Apoptosis-Promoting Anticancer Agent for Head and Neck Cancer. *Molecular Pharmacology*, 76(5), 969-983. doi:10.1124/mol.109.055277

Mahmoud, Y. A. (2007). In vitro and in vivo antifungal activity of cetrimide (cetyltrimethyl ammonium bromide) against fungal keratitis caused by *Fusarium solani*. *Mycoses*, 50(1), 64-70. doi:10.1111/j.1439-0507.2006.01313.x