



De-Plasma™ II PRODUCT DATA SHEET

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Product Name: De-Plasma™ II

Product Number: D030

CAS Number: N/A

Molecular Formula: N/A

Molecular Weight: N/A

Description: To help scientists fight and control *Mycoplasma* contamination, TOKU-E has developed De-Plasma™ II, a cell culture treatment that consists of a proprietary mixture of five unique antimicrobial compounds with three separate anti-*Mycoplasma* targets. De-Plasma™ II is a potent and safe anti-*Mycoplasma* reagent which can be used to eliminate *Mycoplasma* contamination or can be used prophylactically to prevent contamination. De-Plasma™ II has is non-toxic to most cell lines with an ED₅₀ ten times larger than the treatment concentration.

Mycoplasma, the smallest living organisms currently known, are a unique genus of bacteria that lack cell walls and are a frequent cause of cell culture contamination in laboratories around the world. The small size and ubiquitous distribution of *Mycoplasma* account for their ability to go undetected in seemingly sterile cell cultures. Cell cultures can become contaminated with *Mycoplasma* by introducing contaminated cells with *Mycoplasma*-free cells and/or using contaminated reagents. *Mycoplasma* contamination presents serious issues to researchers as it can cause alterations in various cell characteristics and processes which can lead to inaccurate experimental conclusions.

References: Van Kuppeveld, F.J.M. "Detection of Mycoplasma Contamination in Cell Cultures by a Mycoplasma Group-Specific PCR." *Applied and Environmental Microbiology* 60.1 (1994): 149-52. Asm.org. Web. 28 May 2014.

Drexler, Hans G. "Mycoplasma Contamination of Cell Cultures: Incidence, Sources, Effects, Detection, Elimination, Prevention." *Cytotechnology* 39.2 (2002): 75-90. Ncbi.nlm.nih.gov. Web. 28 May 2014.

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